

JAMAICA 94TH AVENUE

147-20 94TH AVENUE

JAMAICA, NEW YORK

Remedial Investigation Report

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LIST OF ACRONYMS

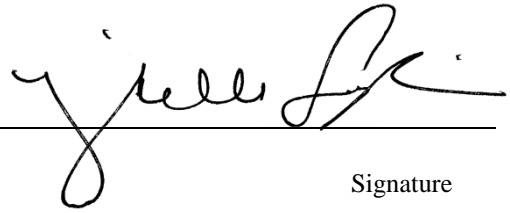
Acronym	Definition
AOC	Area of Concern
DER-10	New York State Department of Environmental Conservation Technical Guide 10
ELAP	Environmental Laboratory Approval Program
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
NYSDEC	New York State Department of Environmental Conservation
OSHA	Occupational Safety and Health Administration
HASP	Health and Safety Plan
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
SCO	Soil Cleanup Objective
GPR	Ground Penetrating Radar
EM	Electromagnetic
UST	Underground storage Tank

CERTIFICATION

We, Michelle Lapin, P.E. and Deborah Shapiro, QEP, certify that we are currently Qualified Environmental Professionals, as defined in 6 NYCRR Part 375 and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plans, work plan addenda, and any DER-approved modifications.

Michelle Lapin, P.E.

6-24-16



Professional Engineer

Date

Signature

Deborah Shapiro, QEP

6-24-16



Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

This Draft Remedial Investigation Report (RIR) provides information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The Remedial Investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The Jamaica 94th Avenue site is an approximately 25,000-square foot parcel located at 147-20 94th Avenue in the Jamaica neighborhood of Queens and is identified as Block 9999, Lot 9 (the Site). The Site formerly comprised Lots 9, 10, 11, 13, and 15; however, the New York City Department of Finance issued a tax lot merger on January 19, 2016, which combined and redefined the lots as Lot 9. The Site is abutted to the north by 94th Avenue, to the east by 148th Street, and to the south and west by undeveloped lots. The surrounding area is developed primarily with vacant and industrial uses, with some commercial and residential properties. The Long Island Railroad (LIRR) is located approximately 200 feet to the north.

The Site comprises several one- and two-story buildings, which have been vacant since approximately 2006 on the eastern portion and is occupied by a refrigeration food storage warehouse on the western portion. The Site location is shown on Figure 1.

Summary of Past Uses of Site and Areas of Concern

Hillman Consulting's March 2015 Phase I Environmental Site Assessment (ESA) indicated that the Site was occupied historically by industrial, manufacturing, and commercial uses, including: an air conditioning manufacturing facility, cold storage, a cabinet making facility, a trucking company, private garages and automotive repairs, automotive storage, a toy warehouse, and general commercial and warehousing uses.

The following were considered Areas of Concern (AOCs) for this investigation:

- The Site's historical uses as an automotive repair shop and various manufacturing uses.
- The Site was identified with an E-Designation for Hazardous Materials Underground Gasoline Storage Tanks Testing Protocol.
- Suspect gasoline underground storage tanks (USTs) on former Lot 15.
- The presence of the remote fill ports labeled "fuel oil" on the 94th Avenue sidewalk adjacent to the Site.

- Potential impacts from closed New York State Department of Environmental Conservation (NYSDEC) Spill No. 99097900 associated with the northwestern (upgradient) adjacent property (93-50 Sutphin Boulevard).

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

The RI included the following scope of work:

1. Conducted a geophysical survey and utility mark-outs;
2. Installed 13 soil borings across the Site and collected 28 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 4 permanent 2-inch diameter groundwater monitoring wells and collected 4 groundwater samples for chemical analysis from the monitoring wells to evaluate groundwater quality;
4. Installed 8 soil vapor probes across the Site and collected 8 soil vapor samples for chemical analysis (due to faulty equipment, only 7 soil vapor samples were able to be analyzed); and
5. Surveyed well elevations to develop a groundwater contour map and determine groundwater flow beneath the Site.

Summary of Hydrogeological Findings

The following geologic and hydrogeologic conditions were noted by the investigation for the Site:

1. The Site lies at an elevation of approximately 39 feet above national geodetic vertical datum (NGVD), an approximate of mean sea level (msl).
2. Groundwater was encountered during the investigation at depths ranging from approximately 19.5 to 21 feet below ground surface (bgs) or 19.21 to 19.33 feet above NGVD on the eastern and western portions of the Site, respectively.
3. Based on the well elevation survey, groundwater flows beneath the Site in a southerly direction toward Jamaica Bay, located approximately 2.5 miles south of the Site.
4. The stratigraphy of the Site, from the surface down, generally consisted of fill comprising sand, silt, and gravel with trace amounts of coal, coal ash, and brick from existing grade to varying depths up to eight feet below grade (average depth being five feet below grade), underlain by sand, silt, and gravel to the terminus of the borings.
5. Bedrock was not encountered.

Summary of Environmental Findings

1. Polycyclic Aromatic Hydrocarbons (PAHs), a subset of semivolatile organic compounds (SVOCs) commonly associated with fill materials, combustion products such as coal, and/or petroleum, were detected above their respective Unrestricted Use Soil Cleanup Objectives (UUSCOs) and/or Restricted Residential Soil Cleanup

Objectives (RRSCOs) in two soil samples [SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111] collected from the shallow (0 to 2 feet) interval below grade. PAH concentrations above UUSCOs and/or RRSCOs ranged from 530 to 5,600 micrograms per kilogram ($\mu\text{g}/\text{kg}$). The pesticide P,P'-DDT was detected in the blind duplicate soil sample SB-3A (0-2') 20160106 at an estimated concentration of 4.86 $\mu\text{g}/\text{kg}$, slightly above its UUSCO of 3.3 $\mu\text{g}/\text{kg}$, but below its RRSCO of 7,900 $\mu\text{g}/\text{kg}$. The heavy metal mercury was detected in soil samples SB-2 (0-2') 20160111, SB-3 (0-2') 20160106, SB-3A (0-2') 20160106, and SB-11 (0-2') 20160107 at concentrations of 0.52, 2.2, 1.8, and 5.4 milligrams per kilogram (mg/kg), respectively, above its UUSCO of 0.18 mg/kg and/or its RRSCO of 0.81 mg/kg . Lead was detected in soil sample SB-1 (0-2') 20160107 at a concentration of 3,700 mg/kg , above its UUSCO of 63 mg/kg and its RRSCO of 400 mg/kg . Lead was also detected in soil samples SB-1 (0-2') 20160107, SB-3 (0-2') 2160106, SB-3A (0-2') 20160106, SB-10 (0-2) 20160111, SB-11 (0-2') 20160107, SB-12 (0-2) 20160111 at concentrations ranging from 140 to 290 mg/kg , which is above its UUSCO, but below its RRSCO. The metals arsenic, copper, nickel, and zinc were also detected at concentrations above their respective UUSCOs in at least one soil sample. These concentrations ranged from 14 to 140 mg/kg . Compounds detected above UUSCOs and/or RRSCOs are listed in Summary Table S1 below:

TABLE S1
Soil Analytes Detected Above UUSCOs and/or RRSCOs

Analyte	Sample(s)	UUSCO mg/kg	RRSCO mg/kg	Result mg/kg
Benzo(a)anthracene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	1	1	3.4 5.1
Benzo(a)pyrene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	1	1	3.1 4.1
Benzo(b)fluoranthene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	1	1	4.5 5.6
Benzo(k)fluoranthene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	0.8	3.9	1.5 2
Chrysene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	1	3.9	3.5 4
Dibenz(a,h)anthracene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	.33	.33	0.53 0.67
Indeno(1,2,3-c,d)pyrene	SB-10 (0-2') 20160111 SB-12 (0-2') 20160111	.5	.5	2 2.4
P,P'-DDT	SB-3A (0-2') 20160106	.0033	13	.00486

Analyte	Sample(s)	UUSCO mg/kg	RRSCO mg/kg	Result mg/kg
Mercury	SB-2 (0-2') 20160111	.18	.81	0.52
	SB-3 (0-2') 20160106			2.2
	SB-3A (0-2') 20160106			1.8
	SB-10 (0-2) 20160111			0.25
	SB-11 (0-2') 20160107			5.4
	SB-12 (0-2) 20160111			0.74
Lead	SB-1 (0-2') 20160107	83	400	3,700
	SB-3 (0-2') 2160106			150
	SB-3A (0-2') 20160106			140
	SB-10 (0-2) 20160111			190
	SB-11 (0-2') 20160107			290
	SB-12 (0-2) 20160111			170
Arsenic	SB-3A (6-8') 20160106	13	16	15
	SB-9 (0-2') 20160107			14
Copper	SB-11 (0-2') 20160107	58	270	88
Nickel	SB-9 (0-2') 20160107	30	310	62
Zinc	SB-3A (0-2') 20160106	109	10,000	140
	SB-9 (0-2') 20160107			140
	SB-10 (0-2') 20160111			140
	SB-11 (0-2') 20160107			110

2. Iron and manganese were detected in the unfiltered groundwater samples at concentrations above their respective Ambient Water Quality Standards (AWQS). Sodium was detected in both the unfiltered and filtered groundwater samples at concentrations above their respective AWQS. Compounds detected above AWQS are listed in Summary Table S2 below:

TABLE S2
Groundwater Analytes Detected Above AWQS

Analyte	Sample(s)	AWQS mg/L	Result mg/L
Iron (Total Analysis)	All samples	0.3L	0.845 to 12
Manganese (Total Analysis)	MW-3 MW-4	0.3	0.3251 0.5548
Sodium (Total Analysis)	All samples	20	28.4 to 77.1
Sodium (Dissolved Analysis)	All samples	20	33 to 93.5

3. Volatile organic compounds (VOCs) associated with petroleum were detected in soil vapor at individual concentrations up to 425 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Solvent-related VOCs were detected at individual concentrations up to 35,100 $\mu\text{g}/\text{m}^3$. Dichlorodifluoromethane was detected at 35,100 $\mu\text{g}/\text{m}^3$ in soil vapor sample SV-2 20160111, which was collected from beneath the walk-in cooler. Tetrachloroethylene (PCE) was detected in soil vapor samples SV-1 20160111, SV-4 20160111, and SV-5 20160111 at concentrations of 63.3 $\mu\text{g}/\text{m}^3$, 257 $\mu\text{g}/\text{m}^3$, and 50.8 $\mu\text{g}/\text{m}^3$, respectively, above its AGV of 30 $\mu\text{g}/\text{m}^3$. According to NYSDOH Soil Vapor/Indoor Air Matrix 2, the applicable matrix for PCE, sub-slab soil vapor concentrations between 100 $\mu\text{g}/\text{m}^3$ and 999 $\mu\text{g}/\text{m}^3$ result in “monitor and/or mitigate actions”, even if the indoor air concentration is less than 3 $\mu\text{g}/\text{m}^3$. Trichloroethylene (TCE) was detected in soil vapor samples SV-4 20160111 and SV-5 20160111 at concentrations of 6.34 $\mu\text{g}/\text{m}^3$ and 2.27 $\mu\text{g}/\text{m}^3$, respectively, above its AGV of 2 $\mu\text{g}/\text{m}^3$. According to NYSDOH Soil Vapor/Indoor Air Matrix 1, the applicable matrix for TCE, sub-slab soil vapor concentrations between 5 $\mu\text{g}/\text{m}^3$ and 50 $\mu\text{g}/\text{m}^3$ result in a “no further action”, “monitor”, or “mitigate” action depending upon the indoor air concentration. Sub-slab soil vapor concentrations of less than 5 $\mu\text{g}/\text{m}^3$ result in “no further action” or “take reasonable and practical actions to identify source and reduce exposures.” See Summary Table S3 below:

TABLE S3
Soil Vapor Analytes Detected Above AGV

Analyte	Sample(s)	AGV (Matrix) $\mu\text{g}/\text{m}^3$	Result $\mu\text{g}/\text{m}^3$
Tetrachloroethylene (PCE)	SV-1 20160111	30 (100)	63.3
	SV-4 20160111		257
	SV-5 20160111		50.8
Trichloroethylene (TCE)	SV-4 20160111	2 (5)	6.34
	SV-5 20160111		2.27

4. Based on an evaluation of the data and information from the investigation, there is some contaminated soil and soil vapor present at the Site that are likely attributable to historic Site usage, including automotive repair and manufacturing. The presence of mercury and lead in shallow fill are likely related to historic filling and/or historic operations at the Site and the elevated detections of PAHs are likely related to historic filling, which was observed during the investigation. The presence of petroleum-related compounds in soil vapor may be related to the current and/or former storage tanks, the elevated level of the compound dichlorodifluoromethane is likely related to former refrigeration processes, and the solvent-related compounds PCE and TCE in soil vapor are likely related to historic manufacturing operations at the Site.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

This Remedial Investigation Report (RIR) summarizes the investigation work performed between January 6 and 19, 2016. The goal of the RIR was to determine whether the past uses have adversely affected the Site.

1.1 Site Location and Current Usage

The Jamaica 94th Avenue Site is an approximately 25,000-square foot parcel located at 147-20 94th Avenue in the Jamaica neighborhood of Queens and is identified as Block 9999 and Lot 9 (the Site). The Site formerly comprised Lots 9, 10, 11, 13, and 15; however, the New York City Department of Finance issued a tax lot merger on January 19, 2016, which combined and redefined the lots as Lot 9.

Currently, the Site consists of one- and two-story buildings. The buildings on former Lots 9, 10, 11, and 13 on the eastern and central portions of the Site operate as a food storage warehouse and cover the majority of the lots, except for a parking area along 94th Avenue. Lot 15 on the western portion of the Site is occupied by an approximately 100-year old vacant warehouse. The Site location is shown on Figure 1 and a Site Plan is included as Figure 2.

1.2 Description of Surrounding Property

The Site is abutted to the north by 94th Avenue, to the east by 148th Street, and to the south and west by undeveloped lots. The larger surrounding area is occupied with primarily industrial uses, and some commercial and residential properties. The Long Island Railroad (LIRR), the Metropolitan Transit Authority (MTA) subway tracks, and the AirTrain to JFK Airport are located approximately 200 feet to the north.

2.0 SITE HISTORY

2.1 Past Uses and Ownership

Hillman Consulting's March 2015 Phase I Environmental Site Assessment (ESA) indicated that the Site was occupied historically by industrial, manufacturing, and commercial uses, including: an air conditioning manufacturing facility, cold storage, a cabinet making facility, a trucking company, private garages and automotive repairs, automotive storage, a toy warehouse, and general commercial and warehousing uses. Past owners of former Lots 9, 10, 11, and 13 included: the NYC Partnership Housing Development Fund Company in 2015; 147-20 Realty Corp from 1993 through 2015; L.J.S.J. Holding Corp. from 1985 through 1993; 147-20 94th Ave. Corp. from 1968 through 1985, and Mary Michalick prior to 1968. Past owners of former Lot 15 included: the NYC Partnership Housing Development Fund Company in 2015; Kendra Management Corp from 2001 through 2015; Kenneth Krinsky and Sondra Krinsky from 1996 through 2001; Kendra Associates and Irving Krinsky from 1981 through 1996; and Irving Krinsky prior to 1981.

2.2 Previous Investigations

Phase I Environmental Site Assessment (ESA) – Block 9999, Lots 9, 10, 11 & 13, Jamaica, New York, Hillman Consulting, March 2015

Hillman conducted a Phase I ESA in March 2015 of former Lots 9, 10, 11, and 13 at the Site. The assessment included a Site inspection, historical research, and a regulatory review of the Site. The report identified the following Recognized Environmental Conditions (RECs) and Historical Recognized Environmental Conditions (HRECs) at former Lots 9, 10, 11, and 13:

- Historic Sanborn fire insurance maps indicate the presence of a gasoline underground storage tank (UST) beneath the parking area.
- Three remote fill ports labeled “fuel oil” were observed on the sidewalk of 94th Avenue in front of the undeveloped parcel west of the Site.
- The Site was historically utilized for manufacturing and is identified with an E-Designation for Hazardous Materials and Noise.
- Historic Sanborn fire insurance maps from 1963 to 1967 and 1985 to 1986 show a gasoline filling station at 93-50 Sutphin Boulevard, northwest and upgradient of the Site that is currently occupied by the Air Train. New York State Department of Environmental Conservation (NYSDEC) Spill No. 99097900 was reported on September 29, 1999 due to the presence of gasoline-contaminated soil. Ten gasoline USTs were subsequently removed and the Port Authority remediated the property during construction of the Air Train. Spill No. 99097900 was closed on December 28, 2004.

Phase I Environmental Site Assessment (ESA) – 94-02 148th Street, Block 9999, Lot 15, Jamaica, New York, Hillman Consulting, April 2015

Hillman completed a Phase I ESA in April 2015 of former Lot 15 at the Site. The assessment included a Site inspection, historical research, and a regulatory review for the Site. The report identified the following RECs at Lot 15:

- The historic uses of automotive repair and manufacturing, and a suspect gasoline UST.
- The Site was identified with an E-Designation for Hazardous Materials – Underground Gasoline Storage Tanks Testing Protocol.

Subsurface (Phase II) Investigation – 147-24 98th Avenue, Jamaica, New York, Hillman Consulting, April 2015

Hillman completed a Subsurface (Phase II) Investigation in April 2015, which included the installation of four soil borings and two temporary groundwater wells in the exterior portions of former Lots 10 and 11, and a geophysical survey of the exterior courtyard and sidewalk frontage of 94th Avenue and 148th Street. No USTs were identified during the geophysical survey. The soil samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), metals, and cyanide. Analytical results were below the New York Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives. All groundwater compounds analyzed for were below applicable New York State 6NYCRR Part 703.5 Class GA Ambient Water Quality Standards (AWQS) with the exception of: aluminum [maximum 38,200 micrograms per liter (µg/L)], barium (3,830 µg/L), chromium (maximum 382 µg/L), iron (maximum 56,300 µg/L), lead (maximum 93.3 µg/L), manganese (maximum 28,000 µg/L), and nickel (maximum 359 µg/L), which were detected in the unfiltered sample above the standard. Therefore, the results may be indicative of sediment entrained in the sample, which would not be representative of groundwater quality at the Site.

Phase I Environmental Site Assessment (ESA) – Block 9999, Lots 9, 10, 11, & 13, Jamaica, New York, Hillmann Consulting, December 2015

Hillmann prepared an updated Phase I ESA for the food storage warehouse buildings in December 2015. The assessment included a Site inspection, historical research, and a regulatory review for the Site. The findings were similar to those identified in the March 2015 Phase I ESA.

Phase I Environmental Site Assessment – Block 9999, Lot 15, 94-02 148th Street, Jamaica, New York, Hillmann Consulting, December 2015

Hillmann prepared an updated Phase I ESA for the vacant warehouse in December 2015. The assessment included a Site inspection, historical research, and a regulatory review for the Site. The findings were similar to those identified in the April 2015 Phase I ESA.

2.3 Areas of Concern (AOCs)

The following environmental issues discussed in Section 2.0 were considered AOCs for this investigation:

- The Site's historical uses as an automotive repair shop and various manufacturing uses.
- The Site was identified with an E-Designation database for Hazardous Materials Underground Gasoline Storage Tanks Testing Protocol.
- Suspect gasoline underground storage tanks (USTs) on former Lot 15.
- The presence of the remote fill ports labeled "fuel oil" on the 94th Avenue sidewalk adjacent to the Site.
- Potential impacts from closed New York State Department of Environmental Conservation (NYSDEC) Spill No. 99097900 associated with the northwestern (upgradient) adjacent property (93-50 Sutphin Boulevard).

3.0 PROJECT MANAGEMENT

3.1 Project Organization

The Qualified Environmental Professionals (QEP) responsible for preparation of this report are Michelle Lapin, P.E. and Deborah Shapiro, QEP.

3.2 Health and Safety

All work described in this report was performed in full compliance with applicable laws and regulations, including Site and Occupational Safety and Health Administration (OSHA) worker safety requirements and Hazardous Waste Operations and Emergency Response (HAZWOPER) requirements. The work described in this report was also performed in accordance with a Site-specific Health and Safety Plan (HASP) dated December 2015.

4.0 SITE INVESTIGATION ACTIVITIES

The following activities were performed as part of the RI:

1. Conducted a geophysical survey and utility mark-outs;
2. Installed 13 soil borings across the Site and collected 28 soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed 4 permanent 2-inch diameter groundwater monitoring wells and collected 4 groundwater samples for chemical analysis from the monitoring wells to evaluate groundwater quality;
4. Installed 8 soil vapor probes across the Site and collected 8 soil vapor samples for chemical analysis (due to faulty equipment, only 7 soil vapor samples were able to be analyzed at the laboratory); and
5. Surveyed well elevations to develop a groundwater contour map and determine groundwater flow beneath the Site.

The locations of the anomalies identified during the geophysical survey and the locations of the soil borings, groundwater monitoring wells, and soil vapor points are shown on Figure 2. A groundwater contour map showing the well elevations and groundwater contours is provided as Figure 3.

4.1 Geophysical Survey and Utility Mark-Outs

On January 6, 2016, a geophysical survey was conducted across accessible portions of the Site by Enviroprobe Service, Inc. of Moorestown, New Jersey to clear the proposed boring locations for subsurface utilities and to locate other potential buried structures. The geophysical survey included both electromagnetic (EM) and ground penetrating radar (GPR) methods. All utility locations were marked out with spray paint prior to the commencement of drilling activities. Two anomalies consistent with that of underground storage tanks (USTs), measuring approximately 9 feet by 5 feet and 12 feet by 5.5 feet, were located on the northwestern portion of the Site in the asphalt-paved parking area and on the eastern portion of the Site within the building on former Lot 15. The Geophysical Investigation Report is attached as Appendix A.

Utility mark-outs are required by law. Eastern Environmental Solutions, Inc. (Eastern), the drilling contractor, called Dig Safely New York at least three days prior to the start of intrusive work.

4.2 Soil Boring Installation

Thirteen soil borings were advanced at the Site between January 6 and 11, 2015 using a track-mounted Geoprobe[®] direct push probe (DPP) unit operated by Eastern. Soil borings SB-1 and SB-2 were advanced to approximately 30 feet below grade, and soil boring SB-3 and SB-13 were advanced to approximately 35 feet below grade to accommodate the installation of groundwater monitoring wells MW-1, MW-2, MW-3, and MW-4, respectively. Soil borings SB-4, SB-5, and SB-6 were advanced to approximately 15 feet below grade; soil borings SB-10 was advanced to approximately 16 feet below grade; soil borings SB-9 and SB-11 were advanced to approximately 10 feet below grade; and soil boring SB-12 was advanced to approximately 8 feet below grade. Soil borings SB-7 and

SB-8 were advanced to approximately 2 feet below grade using a slide hammer due to access limitations in the Site building cellars. One to three soil samples were collected from each soil boring and submitted for chemical analysis. Groundwater was encountered within the soil borings at approximately 20 feet below grade.

Soil cores were obtained using a stainless steel, macro-core sampler with an internal acetate liner. Soil cores were field-screened using a photoionization detector (PID), which measures relative concentrations of VOCs in the soil. The PID was calibrated at the beginning of each field day with 100 parts per million (ppm) isobutylene calibration gas. At each boring location, AKRF field personnel recorded and documented subsurface conditions.

Boring logs prepared by an environmental scientist are provided in Appendix B. Soil borings were sampled continuously and soil samples were screened for evidence of contamination by visual and olfactory methods and by using a calibrated PID. No petroleum odors, staining, or significantly elevated PID readings were noted in soil headspace at the soil boring locations. The soil boring locations were surveyed using the Global Positioning System (GPS) upon their completion (where possible due to building interference).

4.3 Monitoring Well Installation

Four two-inch permanent groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4) were installed to depths of 30 to 35 feet bgs. Groundwater monitoring wells MW-1, MW-3, and MW-4 were installed at the locations of soil borings SB-1, SB-3, and SB-13, respectively. Due to limited accessibility at soil boring location SB-2, groundwater monitoring well MW-2 was off-set approximately 15 feet east of soil boring SB-2. The groundwater monitoring wells were constructed of two-inch Schedule 40, threaded, flush-joint polyvinyl chloride (PVC) well materials. Based on the observed groundwater table, 15 feet of monitoring well screen was installed across the water table between approximately 15 and 30 feet below grade in monitoring wells MW-1, MW-2, and MW-3 and between approximately 20 and 35 feet below grade in monitoring well MW-4. The monitoring wells were backfilled with clean silica sand to approximately two feet above the screen and a bentonite seal was placed above the sand pack. The monitoring wells were finished using locking gate boxes, flush with grade. Groundwater monitoring well installation logs are provided in Appendix C.

4.4 Monitoring Well Development

Following installation, each groundwater monitoring well was developed via surging and pumping until at least three well volumes were evacuated and the purge water was clear. A peristaltic pump and dedicated polyethylene tubing were used during development. Well development details are included on the well construction logs provided in Appendix B.

4.5 Surveying

On January 19, 2016, monitoring wells MW-1 through MW-4 were surveyed by Roguski Land Surveying, P.C., a New York State-licensed surveyor. Elevation measurements were taken at the manhole cover and the top of the PVC casing at each of the groundwater monitoring wells. Horizontal and vertical datum were tied to the North

American Vertical Datum (NAVD-88). Based on the Site-specific groundwater depths and the elevation survey, groundwater flows beneath the Site in a southerly direction toward Jamaica Bay, located approximately 2.5 miles south of the Site. A groundwater contour map showing Site-specific groundwater measurements and groundwater flow direction is provided as Figure 3.

4.6 Soil Vapor Point Installation

Eight temporary soil vapor points were installed by Eastern and seven soil vapor samples were collected for chemical analysis by AKRF on January 11, 2016. Soil vapor points installed within the proposed building footprint (soil vapor points SV-5 and SV-6) were installed to approximately 12 feet below grade at the anticipated depth of the proposed cellar. Soil vapor points SV-4 and SV-8 were installed approximately two feet below the concrete floor slabs in the partial basements on the western portion of the Site. Soil vapor points SV-1, SV-2, SV-3, and SV-7 were installed outside the footprint of the proposed building footprint at approximately two feet below grade. Due to equipment malfunction, soil vapor sample SV-6 20160111 could not be analyzed by the laboratory.

The soil vapor sampling points were installed using a remote access DPP by advancing a 0.75-inch diameter hollow probe rod fitted with an expendable 6-inch long stainless steel screened drive point. The hollow probe rod was then removed and the boring was backfilled with clean silica sand. Hydrated bentonite was used to fill the remaining void around the sampling tubing to grade. Following sampling, the temporary soil vapor points were removed and the holes were backfilled with clean silica sand to grade.

4.7 Sample Collection and Chemical Analysis

Soil, groundwater, and soil vapor have been sampled and evaluated in this report. The sampling performed and presented in this report provides a basis for the evaluation of subsurface Site conditions and potential remedial action with respect to the media sampled.

4.7.1 Soil Sampling

Twenty-eight soil samples were collected for chemical analysis during this investigation. Soil samples collected at each soil boring location included the following: one sample from soil borings SB-7 and SB-8; two soil samples from soil borings SB-1, SB-2, SB-3, SB-9, SB-11, SB-12, and SB-13; and three soil samples from soil borings SB-4, SB-5, SB-6, and SB-10. Due to the elevation of the existing cellars, only one soil sample could be collected from soil borings SB-7 and SB-8. Low-level PID readings ranging from 0.6 ppm to 1.1 ppm were detected within the top two feet of soil within soil boring SB-8. No odors or staining were noted within the top two feet of soil in SB-8. No other evidence of soil contamination (including odors, staining, or elevated PID readings above background levels) were observed in soil at the remaining soil boring locations.

Soil samples collected from the 0 to 2 and 12 to 14 foot intervals were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides by EPA Method 8081, polychlorinated biphenyls (PCBs) by EPA method 8082, and target analyte list (TAL) metals (600/7000 series). Soil samples collected from the 5 to 7 and 6 to 8 foot intervals were analyzed for polycyclic aromatic

hydrocarbons (PAHs) and TAL metals at depths of 5 to 7 feet below grade. For quality assurance/quality control (QA/QC) purposes, two matrix spike/matrix spike duplicates (MS/MSD) and two blind duplicate soil samples were collected from soil borings SB-3 and SB-6. Two field blanks and three trip blanks were also submitted for laboratory analysis, as discussed in Section 4.7.5.

Soil samples slated for laboratory analysis were placed in laboratory-supplied containers in accordance with Environmental Protection Agency (EPA) protocols. The soil samples were analyzed by Alpha Analytical Laboratories (Alpha) of Westborough, Massachusetts, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP)-certified laboratory for Category B deliverables. Third-party data validation was performed by L.A.B. Validation Corp., of Northport, New York and a data usability summary report (DUSR) was prepared.

Soil analytical data is provided on Tables 1 through 6. The soil boring locations are shown on Figure 2. Soil boring logs are provided in Appendix B. The DUSR is provided in Appendix C.

4.7.2 Groundwater Sampling

On January 19, 2016, approximately one week after well development, groundwater samples were collected from monitoring wells MW-1 through MW-4 using low flow sampling methodology with dedicated and decontaminated sampling equipment. Prior to collecting the groundwater samples, the depth to groundwater and the total well depth were measured at each of the groundwater monitoring wells using a multi-parameter interface probe attached to a measuring tape accurate to 0.01 foot. No free phase product was detected in any of the groundwater monitoring wells during installation, purging, or sampling. Purging of the wells continued until the turbidity of the water decreased and groundwater quality parameters stabilized. The groundwater samples were analyzed for VOCs by EPA Method 8260, SVOCs by EPA Method 8270, pesticides by EPA Method 8081, PCBs by EPA Method 8082, and TAL metals (6000/7000 series). The groundwater analyses for metals was conducted on both filtered and unfiltered samples; filtering occurred in the laboratory. For QA/QC purposes, one MS/MSD sample was collected at monitoring well MW-3 and blind duplicate sample MW-2A was collected at MW-2. One field blank and one trip blank were also submitted for chemical analysis. Prior to shipment, sample containers were labeled and placed in an ice-filled cooler and shipped to the laboratory via courier with appropriate chain-of-custody documentation. All samples were analyzed by Alpha with Category B deliverables. Third-party data validation was performed by L.A.B. Validation Corp and a DUSR was prepared.

Groundwater analytical data is reported in Tables 7 through 11. The monitoring well sampling logs are provided in Appendix B. The locations of the groundwater samples are shown on Figure 2. The DUSR is provided in Appendix C.

4.7.3 Soil Vapor Sampling

Eight soil vapor samples (SV-1 20160111 through SV-8 20160111) were collected from the eight temporary soil vapor points SV-1 through SV-8, respectively; however, soil vapor sample SV-6 20160111 could not be analyzed due to faulty equipment.

Prior to collection, each temporary soil vapor sampling point was purged of three sample volumes using a peristaltic pump at a flow rate of approximately 0.1 liter per minute. During purging, an inverted five-gallon bucket was placed over each sampling point and helium gas was introduced through a small hole in the bucket to saturate the atmosphere around the sample port with helium gas. Purged vapors were collected in a Tedlar bag and field-screened for organic vapors using a PID and for methane using a landfill gas meter. The purged air was also monitored using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point. All soil vapor points passed the seal integrity tests with helium readings of not detected (ND). PID readings ranged from ND to 0.8 ppm (recorded at soil vapor point SV-4).

After purging, each probe was connected via Teflon-lined polyethylene tubing to a laboratory-supplied 6-liter SUMMA canister equipped with a flow regulator set to collect a sample over a two-hour sampling period. Immediately after opening the flow control valve, the initial SUMMA canister vacuum (inches of mercury) was noted. After approximately two hours, the flow controller valve was closed, the final vacuum noted, and the canister placed in a shipping carton for delivery to the laboratory.

All samples, with the exception of soil vapor sample SV-6 20160111, were analyzed for VOCs by EPA Method TO-15 by Alpha with Category B deliverables. Sample containers were labeled and shipped to the laboratory via courier with appropriate chain of custody documentation.

Soil vapor sampling locations are shown on Figure 2. Soil vapor sample collection data is reported in Table 12. Soil vapor sampling logs are included in Appendix B. Methodologies used for soil vapor assessment conform to the *New York State Department of Health (NYSDOH) Final Guidance on Soil Vapor Intrusion, October 2006*.

4.7.4 Chemical Analysis

Chemical analytical work has been performed under a quality assurance program that includes the following:

Factor	Description
Quality Assurance Officer	The chemical analytical QA/QC was directed by Marcus Simons of AKRF.
Third Party Data Validator	The third-party data validation was performed by Lori Beyer of L.A.B. Validation Corp.
Chemical Analytical Laboratory	The chemical analytical laboratory used in this investigation was Alpha Analytical of Westborough, Massachusetts, a NYS ELAP-certified laboratory.

Factor	Description
Chemical Analytical Methods	Soil analytical methods: <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • TCL VOCs by EPA Method 8260C (rev. 2006); • TCL SVOCs and PAHs by EPA Method 8270D (rev. 2007); • TCL Pesticides by EPA Method 8081B (rev. 2000); • TCL PCBs by EPA Method 8082A (rev. 2000). Groundwater analytical methods: <ul style="list-style-type: none"> • TAL Metals (total and dissolved) by EPA Method 6020 (rev. 2007); • TCL VOCs by EPA Method 8260C; • TCL SVOCs by EPA Method 8270D; • TCL Pesticides by EPA Method 8081B; • TCL PCBs by EPA Method 8082A. Soil vapor and ambient air analytical method: <ul style="list-style-type: none"> • VOCs by Method EPA TO-15

4.7.5 Quality Assurance/Quality Control (QA/QC) Sampling

QA/QC procedures were used to provide performance information with regard to accuracy, precision, sensitivity, representation, completeness, and comparability associated with the sampling and analyses for this investigation. Field QA/QC procedures were used (1) to document that samples are representative of actual conditions at the Site and (2) to identify possible cross-contamination from field activities or sample transit. Laboratory QA/QC procedures and analyses were used to demonstrate whether analytical results have been biased either by interfering compounds in the sample matrix or by laboratory techniques that may have introduced systematic or random errors to the analytical process.

QA/QC samples were analyzed at an ELAP-certified laboratory. The third-party data validation was performed by L.A.B. Validation Corp. and reported in DUSRs for soil, soil vapor, and groundwater. Laboratory analytical data sets are provided in Appendix C. QA/QC sampling consisted of the following:

Soil

- Two blind duplicates;
- Two MS/MSD samples;
- Two field blanks; and
- Three aqueous trip blank samples.

Groundwater

- One blind duplicate;
- One MS/MSD sample;

- One field blank sample; and
- One aqueous trip blank sample.

QA/QC samples were submitted with the collected soil and groundwater samples. The field blanks, blind duplicates, and MS/MSDs were analyzed for the same analyte list as the accompanying soil and groundwater samples. The trip blank samples were submitted for laboratory analysis for VOCs by EPA Method 8260.

Duplicate samples for soil had relative percent differences; however, soil samples are expected to have a greater variance due to variable contaminant properties in soil, particularly in non-homogenous material, which was identified in the soil borings.

Soil

- The soil DUSR identified additional qualifiers for specific compounds for specific samples. These qualifiers have been added to the data summary tables provided as Tables 1 through 6. The data sets were determined to be acceptable for use with the additional data qualifiers. The changes included the addition of a “J” qualifier indicating that the contaminant detections in the samples were considered estimated values. In several cases, a “UJ” qualifier was added, indicating the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample. Additions of “J+” and “J-“ qualifiers were also added to certain samples where the result was an estimated quantity that may be biased high or biased low, respectively. An “R” qualifier was added to unusable data, which is considered unreliable due to deficiencies in meeting QA/QC criteria. Reanalysis results have been qualified "D", indicated the concentration is from a diluted sample analysis. Initial results have been qualified “E”.
- Acetone was detected in trip blank TB20160111 at a concentration of 5.4 µg/L, which was shipped with samples on January 11, 2016. The detected acetone concentration of 8.1 µg/kg was negated in soil sample SB-10 (12-14) 20160111. The response factors for the target analytes reported were found to be within acceptable limits, with the exception of acetone (0.05 µg/L), 2-butanone (0.09 µg/L), and 1,4-dioxane (0.001 µg/L) in the instrument calibration applicable to field blanks and trip blanks. Additionally, 1,4-dioxane response was low in both the initial and continuing calibrations. Non-detects for 1,4-dioxane in all soil samples, and acetone in the field blanks and trip blanks were rejected (qualified “R”), indicating the data are not usable and the sample results are rejected due to serious deficiencies in meeting quality control criteria.
- All sample analyses were initially conducted without dilutions. Soil sample SB-10 (0-2) 20160111 required reanalysis at a 1:2 dilution rate due to fluoranthene concentrations above the instruments linear range. Initial results (qualified “E”) by the laboratory have been rejected (“R” qualifier). Reanalysis results for this analyte have been qualified "D", indicated the

concentration is from a diluted sample analysis. Soil sample SB-12 (0-2) 20160111 required a reanalysis at 1:2 dilution for fluoranthene and pyrene (qualified “D”).

- Low concentrations of antimony, copper, iron, lead, selenium, aluminum, barium, arsenic, magnesium, sodium, silver, chromium, and mercury were detected in the initial and continuing calibration blanks. Sample concentrations were determined to be greater than the blank levels when converted from mg/L to mg/kg, with the exception of selenium in soil samples SB-10 (5-7) 20160111, SB-12 (6-8) 20160111, SB-3 (0-2) 20160106, and SB-10 (0-2) 20160111, which was negated. A low-level arsenic concentration of 0.0021 mg/L was detected in the method blank associated with FB-2 20160106. The reported concentration of 0.0028 mg/L was negated (“U” qualified), indicating the analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- All serial dilution analyses agree within a 10% difference of the original determination after correction for dilution for all reported elements, with the exception of soil sample SB-6 (5-7) 20160106 for the following compounds: aluminum (13%), calcium (14%), iron (12%), and manganese (15%) (qualified “UJ”). Serial dilution analysis of soil sample SB-6 (0-2) 20160106 resulted in all elements less than 10%.

The DUSR concluded that the overall assessment of the data generated were of acceptable quality. Results for the metals analysis are usable at the revised qualifiers.

Groundwater

- The groundwater DUSR identified additional qualifiers for specific compounds for specific samples. These qualifiers have been added to the data summary tables provided as Tables 7 through 11. The changes included the additions a “J”, “UJ”, “J+”, and “R” qualifiers to select compounds in various groundwater samples.
- The data sets were determined to be acceptable for use with the additional data qualifiers with the exception of the following: non-detects for the compounds acetone, 2-butanone, and 1,4-dioxane due to low equipment and response factors in all groundwater samples. Groundwater monitoring well MW-2 was selected by AKRF field personnel for MS/MSD analysis. Bromomethane recovered low (17% and 23%) in the MS/MSD samples, respectively, and as a result, the relative percent difference (RPD) fell outside of range (30%). Non-detects in the parent sample have been qualified "UJ."
- All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes with the exception of Imaging and Chemical Analysis Laboratory (ICAL) responses for acetone, acrylonitrile, 2-butanone, 1,4-dioxane, bromomethane, and 4-methyl-2-pentanone. Non-detects for acetone, 2-

butanone, and 1,4-dioxane have been rejected (qualified “R”) in all field samples. Non-detects for the remaining analytes have been qualified “UJ”. Acetone detections in the field blank and trip blank have been qualified “J”.

- Low detections of antimony, aluminum, chromium, lead, manganese, nickel, silver, sodium, thallium, zinc, potassium, arsenic, barium, cadmium, and cobalt were detected in the Initial Calibration Blank (ICB)/Continuing Calibration Blank (CCB)/total/dissolved prep blanks. As such, the laboratory reported concentrations for dissolved chromium was negated (qualified “U”) in groundwater sample MW-1 20160119. Total lead concentration in groundwater sample MW-2 20160119 was also negated (qualified “U”). Dissolved antimony was negated in groundwater samples MW-2 20160119, MW-2A 20160119, MW-3 20160119, and MW-4 20160119. Total antimony in groundwater sample MW-2A 20160119 and dissolved zinc in groundwater samples MW-2A 20160119, MW-4 20160119 were negated due to contamination. Additionally, dissolved lead was negated in groundwater sample MW-3 20160119.
- The Field Blank was determined to contain low concentrations of: aluminum, calcium, chromium, iron, manganese, nickel, and potassium. Sample results were evaluated based on the blank levels and in cases where the blank level was determined to be greater than sample concentration, the laboratory reported values were negated (qualified “U”).
- Aluminum, iron, and manganese recoveries fell outside acceptance limits (high) in the total MS/MSD. An acceptable post digestion spike was analyzed. Results in the parent sample; groundwater sample MW-3 20160119 must be considered estimated, biased high (qualified “J+”) for these elements.

The groundwater DUSR indicated the data generated were of acceptable quality. The total and dissolved metals analyses results are usable at the concentrations presented in the validated Form I's provided in Appendix C.

Soil Vapor

The soil vapor DUSR indicated that the Gas Chromatography/Mass Spectrometry (GC/MS) analytical methodology was acceptable for this analysis. The reported data agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

4.7.6 Results of Chemical Analyses

Laboratory data for soil, groundwater, and soil vapor are summarized in Tables 1 through 6, Tables 7 through 11, and Table 12, respectively. Soil sample concentrations above NYSDEC RRSCOs are shown on Figure 4. Soil vapor concentrations above NYSDOH AGVs or Matrices are shown on Figure 6. Laboratory data deliverables for all samples evaluated in this investigation are provided in digital form in Appendix C.

5.0 ENVIRONMENTAL EVALUATION

5.1 Geological and Hydrogeological Conditions

5.1.1 Stratigraphy

Soil observed in the borings during the investigation primarily consisted of fill comprising sand, silt, and gravel with trace amounts of coal, coal ash, and brick from existing grade to varying depths up to eight feet below grade (average depth being five feet below grade), underlain by sand, silt, and gravel to the terminus of the borings.

5.1.2 Hydrogeology

Based on Site-specific groundwater measurements, groundwater beneath the Site ranges from 19.23 feet to 19.32 feet NGVD and flows in a southwesterly direction toward Jamaica Bay, located approximately 2.5 miles south of the Site.

5.2 Soil Chemistry

Twenty-eight soil samples were collected for laboratory analysis from soil borings SB-1 through SB-13. Soil sample analytical results were compared to the 6 NYCRR Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential Use Soil Cleanup Objectives (RRSCOs), the applicable Soil Cleanup Objectives (SCOs) for the proposed future use of the Site. Soil sample analytical results for the soil samples are included in Tables 1 through 6. Soil concentrations exceeding RRSCOs are shown on Figure 4. The complete soil laboratory analytical data reports are included in Appendix C.

5.2.1 VOCs in Soil

Seventeen soil samples were submitted for VOC analysis. The VOCs acetone, chloroform, dichlorodifluoromethane, ethylbenzene, naphthalene, styrene, tetrachloroethene (PCE), toluene, and xylenes were detected in one or more of the soil samples below their respective UUSCOs and RRSCOs. VOCs were not detected in soil sample SB-1 (0-2') 20160107. Acetone was also detected in the trip blank collected on January 12, 2016 (see Section 4.7.5 for more details).

Soil analytical results for VOCs are presented in Table 1.

5.2.2 SVOCs in Soil

Twenty-eight soil samples were submitted for SVOC analysis. Of these, eleven were submitted for PAH analysis only. Multiple PAHs were detected above their respective UUSCOs and RRSCOs in soil samples SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111. Benzo(a)anthracene was detected at concentrations of 3,400 µg/kg and 5,100 µg/kg in soil samples SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111, respectively, above its UUSCO and RRSCO of 1,000 µg/kg. Benzo(a)pyrene was detected at concentrations of 3,100 µg/kg and 4,100 µg/kg in soil samples SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111, respectively, above its UUSCO and RRSCO of 1,000 µg/kg. Benzo(b)fluoranthene was detected at concentrations of 4,500 µg/kg and 5,600 µg/kg in soil samples SB-10

(0-2') 20160111 and SB-12 (0-2') 20160111, respectively, above its UUSCO and RRSCO of 1,000 µg/kg. Benzo(k) fluoranthene was detected at concentrations of 1,500 µg/kg and 2,000 µg/kg in soil samples SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111, respectively, above its UUSCO of 800 µg/kg but below the RRSCO of 3,900 µg/kg. Chrysene as detected above its UUSCO of 1,000 µg/kg in two samples, including in SB-12 (0-2') 20160111 above the RRSCO of 3,900 µg/kg, with a concentration of 4,000 µg/kg. Dibenz(a,h) anthracene was detected at concentrations of 530 µg/kg and 670 µg/kg in soil samples SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111, respectively, above its UUSCO and RRSCO of 330 µg/kg. Indeno(1,2,3-c,d) pyrene was detected at concentrations of 2,000 µg/kg and 2,400 µg/kg in samples SB-10 (0-2') 20160111 and SB-12 (0-2') 20160111, respectively, above its UUSCO and RRSCO of 550 µg/kg. No other SVOCs were detected above respective UUSCOs or RRSCOs. SVOCs were not detected in soil samples SB-1 (6-8') 20160107, SB-2 (6-8') 20160111, SB-3 (6-8') 20160106, SB-10 (5-7') 20160111, SB-11 (6-8') 20160107, SB-13 (6-8') 20160107. SVOCs were not detected in either of the aqueous field blanks.

Soil analytical results for SVOCs are presented in Table 2.

5.2.3 PCBs and Pesticides in Soil

The PCB Aroclor 1268 was detected in soil sample SB-5 (12-14') 20160107 at an estimated concentration of 8.05 µg/kg, below the UUSCO and RRSCO for total PCBs. PCBs were not detected in any other soil samples, including the aqueous field blanks.

The pesticide P,P'- DDT was detected in soil sample SB-3 (0-2') 20160106 at an estimated concentration of 2.93 µg/kg, above its UUSCO but below its RRSCO. The same analyte was detected in the blind duplicate soil sample SB-3A (0-2') 20160106 at an estimated concentration of 4.86 µg/kg, slightly above its UUSCO of 3.3 µg/kg but below its RRSCO of 7,900 µg/kg. No other pesticides were detected above laboratory reporting limits. Pesticides were not detected in either of the aqueous field blanks.

Soil analytical results for PCBs and pesticides are presented in Tables 3 and 4, respectively.

5.2.4 Metals in Soil

Twenty of the 23 metals analyzed were detected in at least one of the soil samples. Six metals (arsenic, copper, lead, mercury, nickel, and zinc) were detected at concentrations above their respective UUSCOs and/or RRSCOs in at least one of the soil samples. Arsenic was detected in soil sample SB-9 (0-2') 20160107 and blind duplicate sample SB-3A (0-2') 20160106 at concentrations of 14 mg/kg and 15 mg/kg, respectively, slightly above its UUSCO of 13 mg/kg, but below its RRSCO of 16 mg/kg. Copper was detected in soil sample SB-11 (0-2') 20160107 at a concentration of 88 mg/kg, above its UUSCO of 50 mg/kg but below its RRSCO of 270 mg/kg. Lead was detected in soil sample SB-1 (0-2') 20160107 at a concentration of 3,700 mg/kg, above its UUSCO of 63 mg/kg and its RRSCO of 400 mg/kg. Lead was also detected in soil samples SB-3 (0-2')

20160106, SB-10 (0-2') 20160111, SB-11 (0-2') 20160107, SB-12 (0-2') 20160111, and blind duplicate sample SB-3A (0-2') 20160106 at concentrations between 140 mg/kg and 290 mg/kg, above its UUSCO but below its RRSCO. Mercury was detected in soil samples SB-3 (0-2') 20160106 and SB-11 (0-2') 20160107 at respective concentrations of 2.2 mg/kg and 5.4 mg/kg above its UUSCO of 0.18 mg/kg and its RRSCO of 0.81 mg/kg. Mercury was also detected in soil samples SB-2 (0-2') 20160111, SB-10 (0-2') 20160111, and SB-12 (0-2') 20160111 at concentrations between 0.25 mg/kg and 0.74 mg/kg, above its UUSCO but below its RRSCO. Mercury was also detected in blind duplicate sample SB-3A (0-2') 20160106 at a concentration of 1.8 mg/kg. Nickel was detected in soil sample SB-9 (0-2') 20160107 at a concentration of 62 mg/kg, above the UUSCO of 30 mg/kg but below the RRSCO of 310 mg/kg. Zinc was detected in soil samples SB-9 (0-2') 20160107, SB-10 (0-2') 20160111, SB-11 (0-2') 20160107, and blind duplicate sample SB-3A (0-2') 20160106 at concentrations between 110 mg/kg and 140 mg/kg, above its UUSCO of 109 mg/kg but below its RRSCO of 10,000 mg/kg. Calcium was detected in the aqueous field blank (see Section 4.7.5 for more details). Soil analytical results for metals are presented in Table 5.

5.3 Groundwater Chemistry

Groundwater laboratory analyses were performed by Alpha Analytical Laboratories of Westborough, Massachusetts, a NYSDOH ELAP-certified laboratory. Sample analytical results were compared to the New York State 6NYCRR Part 703.5 Class GA AWQS. Groundwater sample analytical results for all groundwater samples are included in Tables 7 through 11. Groundwater concentrations exceeding AWQS are shown on Figure 5. Groundwater laboratory analytical data reports are included in Appendix C.

5.3.1 VOCs in Groundwater

PCE was detected in groundwater samples MW-2 20160119 (and the associated blind duplicate), MW-3 20160119, and MW-4 20160119 at estimated concentrations of 0.27 µg/L, 0.31 µg/L, and 0.9 µg/L, respectively, below its AWQS of 5 µg/L. Acetone was detected at low-level estimated concentrations in the aqueous trip blank and field blank samples (see Section 4.7.5 for more details). Acetone is a common laboratory contaminant and is not likely representative on on-site groundwater conditions.

Groundwater analytical results for VOCs are presented in Table 7.

5.3.2 SVOCs in Groundwater

SVOCs were not detected above laboratory reporting limits. One SVOC, diethyl phthalate, was detected in the aqueous field blank sample at a low-level estimated concentration below its AWQS.

Groundwater analytical results for SVOCs are presented in Table 8.

5.3.3 Metals in Groundwater

Twenty metals were detected amongst all total (unfiltered) groundwater samples. Iron was detected in all groundwater samples at concentrations between an

estimated 0.845 µg/L and 12 µg/L above its AWQS of 0.3 12 µg/L. Sodium was also detected in each of the four groundwater samples (and the associated blind duplicate), above its AWQS at concentrations between 28.4 µg/L and 77.1 µg/L. Manganese was detected in groundwater samples MW-3 20160119 and MW-4 20160119 at an estimated concentration of 0.3251 µg/L and 0.5548 µg/L, respectively, slightly above its AWQS of 0.3 µg/L.

Sixteen metals were detected in the dissolved (filtered) groundwater samples and the blind duplicate sample. Sodium was detected in each of the groundwater samples at concentrations between 33 µg/L and 93.5 µg/L, above its AWQS of 20 µg/L.

Groundwater analytical results for metals are presented in Table 9.

5.3.4 PCBs and Pesticides in Groundwater

PCBs were not detected above laboratory reporting limits in the groundwater samples.

The pesticide P,P'-DDT was detected in groundwater sample MW-4 20160119 at a low-level estimated concentration below its AWQS. No other pesticides were detected above laboratory reporting limits in the groundwater samples.

Groundwater analytical results for PCBs and pesticides are presented in Tables 10 and 11, respectively.

5.4 Soil Vapor Chemistry

Eight soil vapor samples (SV-1 through SV-8) were collected from the eight temporary soil vapor points installed across the Site. Due to equipment malfunction, soil vapor sample SV-6 could not be analyzed at the laboratory. Soil vapor analytical results were compared to the NYSDOH 2006 Guidance for Evaluating Soil Vapor Intrusion Air Guidance Values (AGVs) and Matrices, the September 2013 NYSDOH Fact Sheet update for tetrachloroethene (PCE), and the August 2015 Fact Sheet update for trichloroethene (TCE). Soil vapor sample analytical results are included in Table 12. Soil vapor concentrations exceeding AGVs and Matrices are shown on Figure 6.

Twenty-four VOCs were detected amongst all soil vapor samples. VOCs associated with petroleum [including toluene, ethylbenzene, xylenes (collectively referred to as BTEX), 2-hexanone, ethanol, ethyl acetate, and styrene] were detected at individual concentrations up to 425 micrograms per cubic meter (µg/m³). Solvent-related VOCs (including 1,1,1-trichloroethane, acetone, carbon disulfide, chloroform, dichlorodifluoromethane, isopropanol, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, tert-butyl alcohol, PCE, TCE, and trichlorofluoromethane) were detected at individual concentrations up to 35,100 µg/m³. Dichlorodifluoromethane was detected at 35,100 µg/m³ in soil vapor sample SV-2, which was collected from beneath the walk-in cooler.

PCE was detected in soil vapor samples SV-1, SV-4, and SV-5 at concentrations of 63.3 µg/m³, 257 µg/m³, and 50.8 µg/m³, respectively, above its AGV of 30 µg/m³. According to NYSDOH Soil Vapor/Indoor Air Matrix 2, the applicable

matrix for PCE, sub-slab soil vapor concentrations between 100 $\mu\text{g}/\text{m}^3$ and 999 $\mu\text{g}/\text{m}^3$ result in “monitor and/or mitigate actions”, even if the indoor air concentration is less than 3 $\mu\text{g}/\text{m}^3$. TCE was detected in soil vapor samples SV-4 and SV-5 at concentrations of 6.34 $\mu\text{g}/\text{m}^3$ and 2.27 $\mu\text{g}/\text{m}^3$, respectively, above its AGV of 2 $\mu\text{g}/\text{m}^3$. According to NYSDOH Soil Vapor/Indoor Air Matrix 1, the applicable matrix for TCE, sub-slab soil vapor concentrations between 5 $\mu\text{g}/\text{m}^3$ and 50 $\mu\text{g}/\text{m}^3$ result in a “no further action”, “monitor”, or “mitigate” action depending upon the indoor air concentration. Sub-slab soil vapor concentrations of less than 5 $\mu\text{g}/\text{m}^3$ result in “no further action” or “take reasonable and practical actions to identify source and reduce exposures”.

5.5 Conclusions

Based on an evaluation of the data and information from the investigation, there is some contaminated soil and soil vapor present at the Site that is likely attributable to historic Site usage, including automotive repair and manufacturing. The elevated levels of mercury and lead in shallow fill are likely related to historic filling and/or historic operations at the Site and the elevated detections of PAHs are likely related to historic filling, which was observed during the investigation. The elevated levels of petroleum-related compounds in soil vapor may be related to the current and/or former storage tanks, the elevated level of the compound dichlorodifluoromethane is likely related to former refrigeration processes, and the solvent-related compounds PCE and TCE in soil vapor are likely related to historic manufacturing operations at the Site.

6.0 REFERENCES

1. *Phase I Environmental Site Assessment (ESA)* – Block 9999, Lots 9, 10, 11 & 13, Jamaica, New York, prepared by Hillmann Consulting, March 2015.
2. *Phase I Environmental Site Assessment (ESA)* – Block 9999, Lot 15, 94-02 148th Street, Jamaica, New York, prepared by Hillmann Consulting, April 2015.
3. *Phase II Subsurface Investigation* – 147-24 94th Avenue, Jamaica, New York, prepared by Hillmann Consulting, April 2015.
4. *Phase I Environmental Site Assessment (ESA)* – Block 9999, Lots 9, 10, 11, & 13, Jamaica, New York, prepared by Hillmann Consulting, December 2015.
5. *Phase I Environmental Site Assessment (ESA)* – Block 9999, Lot 15, 94-02 148th Street, Jamaica, New York, prepared by Hillmann Consulting, December 2015.
6. *Geophysical Investigation Report* – 94-02 148th Street, Jamaica, New York, Enviroprobe Service, Inc., January 11, 2016.
7. *Groundwater Well Casings Survey* – Block 9999, Lots 9, 10, 11, 13, and 15, Jamaica, New York, Roguski Land Surveying, P.C., January 19, 2016.
8. *Data Usability Summary Report (DUSR)* – Organic Analysis for Soil Vapor Air Samples Collected January 11, 2016, 94-02 148th Street and 147-20 94th Avenue, Queens, New York, L.A.B. Validation Corp., February 7, 2016.
9. *Data Usability Summary Report (DUSR)* – Data Validation Summary for Soil Samples Collected January 6, 7, and 11, 2016, 94-02 148th Street and 147-20 94th Avenue, Queens, New York, L.A.B. Validation Corp., February 9, 2016.
10. *Data Usability Summary Report (DUSR)* – Data Validation Summary for Groundwater Samples Collected January 19, 2016, 94-02 148th Street and 147-20 94th Avenue, Queens, New York, L.A.B. Validation Corp., February 11, 2016.
11. U.S. Geological Survey, Jamaica, New York Quadrangle, 7.5 Minute Series (Topographic), Scale 1:24,000, 1966, Photorevised 2013.
12. 6 NYCRR Section 375-6: Remedial Program Soil Cleanup Objectives (SCOs), December 14, 2006.
13. NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, March 1998.
14. NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York Air Guideline Values (AGVs) and Table 3.3 Matrix 1 and 2 Chemicals, October 2006; updated September 2013 for change of AGV for PCE; updated August 2015 for change of AGV for TCE.

TABLES

Table 1
Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, NY
 Subsurface Investigation Soil Analytical Results
 Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-1 (0-2) 20160107 L1600381-13 1/7/2016	SB-2 (0-2) 20160111 L1600381-18 1/11/2016	SB-3 (0-2) 20160106 L1600381-03 1/6/2016	SB-3A (0-2) 20160106 L1600381-04 1/6/2016
µg/kg	µg/kg	µg/kg				
1,1,1,2-Tetrachloroethane	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
1,1,1-Trichloroethane	680	100,000	1.1 U	1.0 U	0.91 U	1.2 U
1,1,2,2-Tetrachloroethane	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
1,1,2-Trichloroethane	NS	NS	1.6 U	1.6 U	1.4 U	1.7 U
1,1-Dichloroethane	270	26,000	1.6 U	1.6 U	1.4 U	1.7 U
1,1-Dichloroethene	330	100,000	1.1 U	1.0 U	0.91 U	1.2 U
1,1-Dichloropropene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
1,2,3-Trichlorobenzene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
1,2,3-Trichloropropane	NS	NS	11 U	10 U	9.1 U	12 U
1,2,4,5-Tetramethylbenzene	NS	NS	4.3 U	4.2 U	3.6 U	4.6 U
1,2,4-Trichlorobenzene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
1,2,4-Trimethylbenzene	3,600	52,000	5.4 U	5.3 U	4.5 U	5.8 U
1,2-Dibromo-3-Chloropropane	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	4.3 U	4.2 U	3.6 U	4.6 U
1,2-Dichlorobenzene	1,100	100,000	5.4 U	5.3 U	4.5 U	5.8 U
1,2-Dichloroethane	20	3,100	1.1 UJ	1.0 U	0.91 UJ	1.2 UJ
1,2-Dichloropropane	NS	NS	3.8 U	3.7 U	3.2 U	4.0 U
1,3,5-Trimethylbenzene (Mesitylene)	8,400	52,000	5.4 U	5.3 U	4.5 U	5.8 U
1,3-Dichlorobenzene	2,400	49,000	5.4 U	5.3 U	4.5 U	5.8 U
1,3-Dichloropropane	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
1,4-Dichlorobenzene	1,800	13,000	5.4 U	5.3 U	4.5 U	5.8 U
1,4-Diethyl Benzene	NS	NS	4.3 U	4.2 U	3.6 U	4.6 U
1,4-Dioxane (P-Dioxane)	100	13,000	110 R	100 R	91 R	120 R
2,2-Dichloropropane	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
2-Chlorotoluene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
2-Hexanone	NS	NS	11 UJ	10 U	9.1 UJ	12 UJ
4-Chlorotoluene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
4-Ethyltoluene	NS	NS	4.3 U	4.2 U	3.6 U	4.6 U
Acetone	50	100,000	11 U	10 U	8.7 J	6.4 J
Acrylonitrile	NS	NS	11 U	10 U	9.1 U	12 U
Benzene	60	4,800	1.1 U	1.0 U	0.91 U	1.2 U
Bromobenzene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
Bromochloromethane	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
Bromodichloromethane	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
Bromoform	NS	NS	4.3 U	4.2 U	3.6 U	4.6 U
Bromomethane	NS	NS	2.2 UJ	2.1 UJ	1.8 UJ	2.3 UJ
Carbon Disulfide	NS	NS	11 U	10 U	9.1 U	12 U
Carbon Tetrachloride	760	2,400	1.1 U	1.0 U	0.91 U	1.2 U
Chlorobenzene	1,100	100,000	1.1 U	1.0 U	0.91 U	1.2 U
Chloroethane	NS	NS	2.2 UJ	2.1 U	1.8 UJ	2.3 UJ
Chloroform	370	49,000	1.6 U	1.6 U	1.4 U	1.7 U
Chloromethane	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
Cis-1,2-Dichloroethylene	250	100,000	1.1 U	1.0 U	0.91 U	1.2 U
Cis-1,3-Dichloropropene	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
Cymene	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
Dibromochloromethane	NS	NS	1.1 UJ	1.0 U	0.91 U	1.2 U
Dibromomethane	NS	NS	11 U	10 U	9.1 U	12 U
Dichlorodifluoromethane	NS	NS	11 UJ	10 U	9.1 UJ	12 UJ
Dichloroethylenes	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
Diethyl Ether (Ethyl Ether)	NS	NS	5.4 UJ	5.3 U	4.5 UJ	5.8 UJ
Ethylbenzene	1,000	41,000	1.1 U	1.0 U	0.91 U	1.2 U
Hexachlorobutadiene	NS	NS	5.4 U	5.3 U	4.5 U	5.8 U
Isopropylbenzene (Cumene)	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
M,P-Xylenes	260 TS	100,000 TS	2.2 U	2.1 U	1.8 U	2.3 U
Methyl Ethyl Ketone (2-Butanone)	120	100,000	11 UJ	10 U	9.1 UJ	12 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	11 U	10 UJ	9.1 U	12 U
Methylene Chloride	50	100,000	11 U	10 U	9.1 U	12 U
Naphthalene	12,000	100,000	5.4 U	5.3 U	4.5 U	5.8 U
N-Butylbenzene	12,000	100,000	1.1 U	1.0 U	0.91 U	1.2 U
N-Propylbenzene	3,900	100,000	1.1 U	1.0 U	0.91 U	1.2 U
O-Xylene (1,2-Dimethylbenzene)	260 TS	100,000 TS	2.2 U	2.1 U	1.8 U	2.3 U
Sec-Butylbenzene	11,000	100,000	1.1 U	1.0 U	0.91 U	1.2 U
Styrene	NS	NS	2.2 U	2.1 U	1.8 U	2.3 U
T-Butylbenzene	5,900	100,000	5.4 U	5.3 U	4.5 U	5.8 U
Tert-Butyl Methyl Ether	930	100,000	2.2 U	2.1 U	1.8 U	2.3 U
Tetrachloroethylene (PCE)	1,300	19,000	1.1 U	1.0 U	0.91 U	1.2 U
Toluene	700	100,000	1.6 UJ	0.70 J	6.4 J-	14 J-
Total, 1,3-Dichloropropene (Cis And Trans)	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
Trans-1,2-Dichloroethene	190	100,000	1.6 U	1.6 U	1.4 U	1.7 U
Trans-1,3-Dichloropropene	NS	NS	1.1 U	1.0 U	0.91 U	1.2 U
Trans-1,4-Dichloro-2-Butene	NS	NS	5.4 UJ	5.3 U	4.5 UJ	5.8 UJ
Trichloroethylene (TCE)	470	21,000	1.1 U	1.0 U	0.91 U	1.2 U
Trichlorofluoromethane	NS	NS	5.4 UJ	5.3 U	4.5 UJ	5.8 UJ
Vinyl Acetate	NS	NS	11 UJ	10 U	9.1 UJ	12 UJ
Vinyl Chloride	20	900	2.2 UJ	2.1 UJ	1.8 UJ	2.3 UJ
Xylenes	260	100,000	2.2 U	2.1 U	1.8 U	2.3 U

Table 1
Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, NY
 Subsurface Investigation Soil Analytical Results
 Volatile Organic Compounds

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-4 (0-2) 20160107 L1600381-15 1/7/2016	SB-4 (12-14) 20160107 L1600381-16 1/7/2016	SB-5 (0-2) 20160107 L1600381-08 1/7/2016	SB-5 (12-14) 20160107 L1600381-09 1/7/2016
Lab Sample ID						
Date Sampled						
µg/kg	µg/kg	µg/kg				
1,1,1,2-Tetrachloroethane	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
1,1,1-Trichloroethane	680	100,000	0.96 U	1.2 U	0.97 U	1.1 U
1,1,2,2-Tetrachloroethane	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
1,1,2-Trichloroethane	NS	NS	1.4 U	1.8 U	1.4 U	1.6 U
1,1-Dichloroethane	270	26,000	1.4 U	1.8 U	1.4 U	1.6 U
1,1-Dichloroethene	330	100,000	0.96 U	1.2 U	0.97 U	1.1 U
1,1-Dichloropropene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
1,2,3-Trichlorobenzene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
1,2,3-Trichloropropane	NS	NS	9.6 U	12 U	9.7 U	11 U
1,2,4,5-Tetramethylbenzene	NS	NS	3.8 U	4.7 U	3.9 U	4.4 U
1,2,4-Trichlorobenzene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
1,2,4-Trimethylbenzene	3,600	52,000	4.8 U	5.9 U	4.8 U	5.4 U
1,2-Dibromo-3-Chloropropane	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	3.8 U	4.7 U	3.9 U	4.4 U
1,2-Dichlorobenzene	1,100	100,000	4.8 U	5.9 U	4.8 U	5.4 U
1,2-Dichloroethane	20	3,100	0.96 UJ	1.2 UJ	0.97 UJ	1.1 UJ
1,2-Dichloropropane	NS	NS	3.3 U	4.1 U	3.4 U	3.8 U
1,3,5-Trimethylbenzene (Mesitylene)	8,400	52,000	4.8 U	5.9 U	4.8 U	5.4 U
1,3-Dichlorobenzene	2,400	49,000	4.8 U	5.9 U	4.8 U	5.4 U
1,3-Dichloropropane	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
1,4-Dichlorobenzene	1,800	13,000	4.8 U	5.9 U	4.8 U	5.4 U
1,4-Diethyl Benzene	NS	NS	3.8 U	4.7 U	3.9 U	4.4 U
1,4-Dioxane (P-Dioxane)	100	13,000	96 R	120 R	97 R	110 R
2,2-Dichloropropane	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
2-Chlorotoluene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
2-Hexanone	NS	NS	9.6 UJ	12 UJ	9.7 UJ	11 UJ
4-Chlorotoluene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
4-Ethyltoluene	NS	NS	3.8 U	4.7 U	3.9 U	4.4 U
Acetone	50	100,000	3.4 J	4.4 J	3.2 J	4.5 J
Acrylonitrile	NS	NS	9.6 U	12 U	9.7 U	11 U
Benzene	60	4,800	0.96 U	1.2 U	0.97 U	1.1 U
Bromobenzene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
Bromochloromethane	NS	NS	4.8 U	5.9 U	4.8 UJ	5.4 U
Bromodichloromethane	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Bromoform	NS	NS	3.8 U	4.7 U	3.9 U	4.4 U
Bromomethane	NS	NS	1.9 UJ	2.4 UJ	1.9 UJ	2.2 UJ
Carbon Disulfide	NS	NS	9.6 U	12 U	9.7 U	11 U
Carbon Tetrachloride	760	2,400	0.96 U	1.2 U	0.97 U	1.1 U
Chlorobenzene	1,100	100,000	0.96 U	1.2 U	0.97 U	1.1 U
Chloroethane	NS	NS	1.9 UJ	2.4 UJ	1.9 UJ	2.2 UJ
Chloroform	370	49,000	1.4 U	1.8 U	1.4 U	1.6 U
Chloromethane	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
Cis-1,2-Dichloroethylene	250	100,000	0.96 U	1.2 U	0.97 U	1.1 U
Cis-1,3-Dichloropropene	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Cymene	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Dibromochloromethane	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Dibromomethane	NS	NS	9.6 U	12 U	9.7 U	11 U
Dichlorodifluoromethane	NS	NS	9.6 UJ	12 UJ	9.7 UJ	11 UJ
Dichloroethylenes	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Diethyl Ether (Ethyl Ether)	NS	NS	4.8 UJ	5.9 UJ	4.8 UJ	5.4 UJ
Ethylbenzene	1,000	41,000	0.96 U	1.2 U	0.97 U	1.1 U
Hexachlorobutadiene	NS	NS	4.8 U	5.9 U	4.8 U	5.4 U
Isopropylbenzene (Cumene)	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
M,P-Xylenes	260 TS	100,000 TS	1.9 U	2.4 U	1.9 U	0.77 J
Methyl Ethyl Ketone (2-Butanone)	120	100,000	9.6 UJ	12 UJ	9.7 UJ	11 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	9.6 U	12 U	9.7 U	11 U
Methylene Chloride	50	100,000	9.6 U	12 U	9.7 U	11 U
Naphthalene	12,000	100,000	4.8 U	5.9 U	4.8 U	5.4 U
N-Butylbenzene	12,000	100,000	0.96 U	1.2 U	0.97 U	1.1 U
N-Propylbenzene	3,900	100,000	0.96 U	1.2 U	0.97 U	1.1 U
O-Xylene (1,2-Dimethylbenzene)	260 TS	100,000 TS	1.9 U	2.4 U	1.9 U	2.2 U
Sec-Butylbenzene	11,000	100,000	0.96 U	1.2 U	0.97 U	1.1 U
Styrene	NS	NS	1.9 U	2.4 U	1.9 U	2.2 U
T-Butylbenzene	5,900	100,000	4.8 U	5.9 U	4.8 U	5.4 U
Tert-Butyl Methyl Ether	930	100,000	1.9 U	2.4 U	1.9 U	2.2 U
Tetrachloroethylene (PCE)	1,300	19,000	0.96 U	1.2 U	0.97 U	1.1 U
Toluene	700	100,000	1.4 UJ	1.8 UJ	1.4 UJ	1.6 UJ
Total, 1,3-Dichloropropene (Cis And Trans)	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Trans-1,2-Dichloroethene	190	100,000	1.4 U	1.8 U	1.4 U	1.6 U
Trans-1,3-Dichloropropene	NS	NS	0.96 U	1.2 U	0.97 U	1.1 U
Trans-1,4-Dichloro-2-Butene	NS	NS	4.8 UJ	5.9 UJ	4.8 UJ	5.4 UJ
Trichloroethylene (TCE)	470	21,000	0.96 U	1.2 U	0.97 U	1.1 U
Trichlorofluoromethane	NS	NS	4.8 UJ	5.9 UJ	4.8 UJ	5.4 UJ
Vinyl Acetate	NS	NS	9.6 UJ	12 UJ	9.7 UJ	11 UJ
Vinyl Chloride	20	900	1.9 UJ	2.4 UJ	1.9 UJ	2.2 UJ
Xylenes	260	100,000	1.9 U	2.4 U	1.9 U	0.77 J

Table 1
Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, NY
 Subsurface Investigation Soil Analytical Results
 Volatile Organic Compounds

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-6 (0-2) 20160106 L1600381-01 1/6/2016	SB-6 (12-14) 20160106 L1600381-02 1/6/2016	SB-7 (0-2) 20160107 L1600381-10 1/7/2016	SB-8 (0-2) 20160107 L1600381-12 1/7/2016
Lab Sample ID						
Date Sampled						
µg/kg	µg/kg	µg/kg				
1,1,1,2-Tetrachloroethane	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
1,1,1-Trichloroethane	680	100,000	0.99 U	1.1 U	1.3 U	1.3 U
1,1,2,2-Tetrachloroethane	NS	NS	0.99 UJ	1.1 U	1.3 U	1.3 U
1,1,2-Trichloroethane	NS	NS	1.5 UJ	1.7 U	1.9 U	1.9 U
1,1-Dichloroethane	270	26,000	1.5 U	1.7 U	1.9 U	1.9 U
1,1-Dichloroethene	330	100,000	0.99 U	1.1 U	1.3 U	1.3 U
1,1-Dichloropropene	NS	NS	5.0 U	5.6 U	6.4 U	6.4 U
1,2,3-Trichlorobenzene	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
1,2,3-Trichloropropane	NS	NS	9.9 UJ	11 U	13 U	13 U
1,2,4,5-Tetramethylbenzene	NS	NS	4.0 UJ	4.5 U	5.2 U	5.1 U
1,2,4-Trichlorobenzene	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
1,2,4-Trimethylbenzene	3,600	52,000	5.0 U	5.6 U	6.4 U	6.4 U
1,2-Dibromo-3-Chloropropane	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	4.0 UJ	4.5 U	5.2 U	5.1 U
1,2-Dichlorobenzene	1,100	100,000	5.0 UJ	5.6 U	6.4 U	6.4 U
1,2-Dichloroethane	20	3,100	0.99 UJ	1.1 UJ	1.3 UJ	1.3 UJ
1,2-Dichloropropane	NS	NS	3.5 U	3.9 U	4.5 U	4.4 U
1,3,5-Trimethylbenzene (Mesitylene)	8,400	52,000	5.0 UJ	5.6 U	6.4 U	6.4 U
1,3-Dichlorobenzene	2,400	49,000	5.0 UJ	5.6 U	6.4 U	6.4 U
1,3-Dichloropropane	NS	NS	5.0 U	5.6 U	6.4 U	6.4 U
1,4-Dichlorobenzene	1,800	13,000	5.0 UJ	5.6 U	6.4 U	6.4 U
1,4-Diethyl Benzene	NS	NS	4.0 UJ	4.5 U	5.2 U	5.1 U
1,4-Dioxane (P-Dioxane)	100	13,000	99 R	110 R	130 R	130 R
2,2-Dichloropropane	NS	NS	5.0 U	5.6 U	6.4 U	6.4 U
2-Chlorotoluene	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
2-Hexanone	NS	NS	9.9 UJ	11 UJ	13 UJ	13 UJ
4-Chlorotoluene	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
4-Ethyltoluene	NS	NS	4.0 UJ	4.5 U	5.2 U	5.1 U
Acetone	50	100,000	2.1 J	6.5 J	4.8 J	13 U
Acrylonitrile	NS	NS	9.9 U	11 U	13 U	13 U
Benzene	60	4,800	0.99 U	1.1 U	1.3 U	1.3 U
Bromobenzene	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
Bromochloromethane	NS	NS	5.0 U	5.6 U	6.4 U	6.4 U
Bromodichloromethane	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
Bromoform	NS	NS	4.0 UJ	4.5 U	5.2 U	5.1 U
Bromomethane	NS	NS	2.0 UJ	2.2 UJ	2.6 UJ	2.5 UJ
Carbon Disulfide	NS	NS	9.9 U	11 U	13 U	13 U
Carbon Tetrachloride	760	2,400	0.99 U	1.1 U	1.3 U	1.3 U
Chlorobenzene	1,100	100,000	0.99 UJ	1.1 U	1.3 U	1.3 U
Chloroethane	NS	NS	2.0 UJ	2.2 UJ	2.6 UJ	2.5 UJ
Chloroform	370	49,000	2.0	1.7 U	1.9 U	1.9 U
Chloromethane	NS	NS	5.0 U	5.6 U	6.4 U	6.4 U
Cis-1,2-Dichloroethylene	250	100,000	0.99 U	1.1 U	1.3 U	1.3 U
Cis-1,3-Dichloropropene	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
Cymene	NS	NS	0.99 UJ	1.1 U	1.3 U	1.3 U
Dibromochloromethane	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
Dibromomethane	NS	NS	9.9 U	11 U	13 U	13 U
Dichlorodifluoromethane	NS	NS	9.9 UJ	11 UJ	13 UJ	13 UJ
Dichloroethylenes	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
Diethyl Ether (Ethyl Ether)	NS	NS	5.0 UJ	5.6 UJ	6.4 UJ	6.4 UJ
Ethylbenzene	1,000	41,000	0.99 U	1.1 U	1.3 U	1.3 U
Hexachlorobutadiene	NS	NS	5.0 UJ	5.6 U	6.4 U	6.4 U
Isopropylbenzene (Cumene)	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
M,P-Xylenes	260 TS	100,000 TS	2.0 UJ	2.2 U	2.6 U	1.8 J
Methyl Ethyl Ketone (2-Butanone)	120	100,000	9.9 UJ	11 UJ	13 UJ	13 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	9.9 UJ	11 U	13 U	13 U
Methylene Chloride	50	100,000	9.9 U	11 U	13 U	13 U
Naphthalene	12,000	100,000	5.0 UJ	5.6 U	6.4 U	6.4 U
N-Butylbenzene	12,000	100,000	0.99 UJ	1.1 U	1.3 U	1.3 U
N-Propylbenzene	3,900	100,000	0.99 UJ	1.1 U	1.3 U	1.3 U
O-Xylene (1,2-Dimethylbenzene)	260 TS	100,000 TS	2.0 UJ	2.2 U	2.6 U	0.85 J
Sec-Butylbenzene	11,000	100,000	0.99 U	1.1 U	1.3 U	1.3 U
Styrene	NS	NS	2.0 UJ	2.2 U	2.6 U	2.5 U
T-Butylbenzene	5,900	100,000	5.0 U	5.6 U	6.4 U	6.4 U
Tert-Butyl Methyl Ether	930	100,000	2.0 U	2.2 U	2.6 U	2.5 U
Tetrachloroethylene (PCE)	1,300	19,000	1.5	1.1 U	1.3 U	1.3 U
Toluene	700	100,000	7.8 J-	22 J-	1.9 UJ	1.9 UJ
Total, 1,3-Dichloropropene (Cis And Trans)	NS	NS	0.99 U	1.1 U	1.3 U	1.3 U
Trans-1,2-Dichloroethene	190	100,000	1.5 U	1.7 U	1.9 U	1.9 U
Trans-1,3-Dichloropropene	NS	NS	0.99 UJ	1.1 U	1.3 U	1.3 U
Trans-1,4-Dichloro-2-Butene	NS	NS	5.0 UJ	5.6 UJ	6.4 UJ	6.4 UJ
Trichloroethylene (TCE)	470	21,000	0.99 U	1.1 U	1.3 U	1.3 U
Trichlorofluoromethane	NS	NS	5.0 UJ	5.6 UJ	6.4 UJ	6.4 UJ
Vinyl Acetate	NS	NS	9.9 UJ	11 UJ	13 UJ	13 UJ
Vinyl Chloride	20	900	2.0 UJ	2.2 UJ	2.6 UJ	2.5 UJ
Xylenes	260	100,000	2.0 U	2.2 U	2.6 U	2.7 J

Table 1
Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, NY
 Subsurface Investigation Soil Analytical Results
Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-9 (0-2) 20160107 L1600381-14 1/7/2016	SB-10 (0-2) 20160111 L1600381-19 1/11/2016	SB-10 (12-14) 20160111 L1600381-20 1/11/2016	SB-11 (0-2) 20160107 L1600381-07 1/7/2016
µg/kg	µg/kg	µg/kg				
1,1,1,2-Tetrachloroethane	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
1,1,1-Trichloroethane	680	100,000	0.98 U	1.1 U	1.1 U	1.0 U
1,1,2,2-Tetrachloroethane	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
1,1,2-Trichloroethane	NS	NS	1.5 U	1.7 U	1.7 U	1.5 U
1,1-Dichloroethane	270	26,000	1.5 U	1.7 U	1.7 U	1.5 U
1,1-Dichloroethene	330	100,000	0.98 U	1.1 U	1.1 U	1.0 U
1,1-Dichloropropene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
1,2,3-Trichlorobenzene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
1,2,3-Trichloropropane	NS	NS	9.8 U	11 U	11 U	10 U
1,2,4,5-Tetramethylbenzene	NS	NS	3.9 U	4.6 U	4.5 U	4.0 U
1,2,4-Trichlorobenzene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
1,2,4-Trimethylbenzene	3,600	52,000	4.9 U	5.7 U	5.6 U	5.0 U
1,2-Dibromo-3-Chloropropane	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	3.9 U	4.6 U	4.5 U	4.0 U
1,2-Dichlorobenzene	1,100	100,000	4.9 U	5.7 U	5.6 U	5.0 U
1,2-Dichloroethane	20	3,100	0.98 UJ	1.1 U	1.1 U	1.0 UJ
1,2-Dichloropropane	NS	NS	3.4 U	4.0 U	4.0 U	3.5 U
1,3,5-Trimethylbenzene (Mesitylene)	8,400	52,000	4.9 U	5.7 U	5.6 U	5.0 U
1,3-Dichlorobenzene	2,400	49,000	4.9 U	5.7 U	5.6 U	5.0 U
1,3-Dichloropropane	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
1,4-Dichlorobenzene	1,800	13,000	4.9 U	5.7 U	5.6 U	5.0 U
1,4-Diethyl Benzene	NS	NS	3.9 U	4.6 U	4.5 U	4.0 U
1,4-Dioxane (P-Dioxane)	100	13,000	98 R	110 R	110 R	100 R
2,2-Dichloropropane	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
2-Chlorotoluene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
2-Hexanone	NS	NS	9.8 UJ	11 U	11 U	10 UJ
4-Chlorotoluene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
4-Ethyltoluene	NS	NS	3.9 U	4.6 U	4.5 U	4.0 U
Acetone	50	100,000	3.2 J	11 U	11 U	3.5 J
Acrylonitrile	NS	NS	9.8 U	11 U	11 U	10 U
Benzene	60	4,800	0.98 U	1.1 U	1.1 U	1.0 U
Bromobenzene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
Bromochloromethane	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
Bromodichloromethane	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Bromoform	NS	NS	3.9 U	4.6 U	4.5 U	4.0 U
Bromomethane	NS	NS	2.0 UJ	2.3 UJ	2.3 UJ	2.0 UJ
Carbon Disulfide	NS	NS	9.8 U	11 U	11 U	10 U
Carbon Tetrachloride	760	2,400	0.98 U	1.1 U	1.1 U	1.0 U
Chlorobenzene	1,100	100,000	0.98 U	1.1 U	1.1 U	1.0 U
Chloroethane	NS	NS	2.0 UJ	2.3 UJ	2.3 UJ	2.0 UJ
Chloroform	370	49,000	1.5 U	1.7 U	1.7 U	5.7
Chloromethane	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
Cis-1,2-Dichloroethylene	250	100,000	0.98 U	1.1 U	1.1 U	1.0 U
Cis-1,3-Dichloropropene	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Cymene	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Dibromochloromethane	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Dibromomethane	NS	NS	9.8 U	11 U	11 U	10 U
Dichlorodifluoromethane	NS	NS	9.8 UJ	11 U	11 U	10 UJ
Dichloroethylenes	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Diethyl Ether (Ethyl Ether)	NS	NS	4.9 UJ	5.7 U	5.6 U	5.0 UJ
Ethylbenzene	1,000	41,000	0.98 U	1.1 U	1.1 U	1.0 U
Hexachlorobutadiene	NS	NS	4.9 U	5.7 U	5.6 U	5.0 U
Isopropylbenzene (Cumene)	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
M,P-Xylenes	260 TS	100,000 TS	2.0 U	2.3 U	2.3 U	2.0 U
Methyl Ethyl Ketone (2-Butanone)	120	100,000	9.8 UJ	11 U	11 U	10 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	9.8 U	11 UJ	11 UJ	10 U
Methylene Chloride	50	100,000	9.8 U	11 U	11 U	10 U
Naphthalene	12,000	100,000	4.9 U	1.4 J	1.4 J	5.0 U
N-Butylbenzene	12,000	100,000	0.98 U	1.1 U	1.1 U	1.0 U
N-Propylbenzene	3,900	100,000	0.98 U	1.1 U	1.1 U	1.0 U
O-Xylene (1,2-Dimethylbenzene)	260 TS	100,000 TS	2.0 U	2.3 U	2.3 U	2.0 U
Sec-Butylbenzene	11,000	100,000	0.98 U	1.1 U	1.1 U	1.0 U
Styrene	NS	NS	2.0 U	2.3 U	2.3 U	2.0 U
T-Butylbenzene	5,900	100,000	4.9 U	5.7 U	5.6 U	5.0 U
Tert-Butyl Methyl Ether	930	100,000	2.0 U	2.3 U	2.3 U	2.0 U
Tetrachloroethylene (PCE)	1,300	19,000	0.98 U	1.1 U	1.1 U	3.2
Toluene	700	100,000	1.5 UJ	1.4 J	1.4 J	1.5 UJ
Total, 1,3-Dichloropropene (Cis And Trans)	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Trans-1,2-Dichloroethene	190	100,000	1.5 U	1.7 U	1.7 U	1.5 U
Trans-1,3-Dichloropropene	NS	NS	0.98 U	1.1 U	1.1 U	1.0 U
Trans-1,4-Dichloro-2-Butene	NS	NS	4.9 UJ	5.7 U	5.6 U	5.0 UJ
Trichloroethylene (TCE)	470	21,000	0.98 U	1.1 U	1.1 U	1.0 U
Trichlorofluoromethane	NS	NS	4.9 UJ	5.7 UJ	5.6 UJ	5.0 UJ
Vinyl Acetate	NS	NS	9.8 UJ	11 U	11 U	10 UJ
Vinyl Chloride	20	900	2.0 UJ	2.3 UJ	2.3 UJ	2.0 UJ
Xylenes	260	100,000	2.0 U	2.3 U	2.3 U	2.0 U

Table 1
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Volatile Organic Compounds

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-12 (0-2) 20160111 L1600381-21 1/11/2016	SB-13 (0-2) 20160107 L1600381-11 1/7/2016	FB-1 20160106 L1600381-05 1/6/2016	TB20160106 L1600381-06 1/4/2016	TB20160107 L1600381-17 1/7/2016	TB20160111 L1600381-22 1/4/2016
Lab Sample ID								
Date Sampled								
µg/kg	µg/kg	µg/kg						
1,1,1,2-Tetrachloroethane	NS	NS	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	680	100,000	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	NS	NS	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 UJ
1,1,2-Trichloroethane	NS	NS	1.8 U	2.4 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	270	26,000	1.8 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	330	100,000	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloropropene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichloropropane	NS	NS	12 U	16 U	2.5 U	2.5 U	2.5 U	2.5 UJ
1,2,4,5-Tetramethylbenzene	NS	NS	4.7 U	6.5 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	3,600	52,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	4.7 U	6.5 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	1,100	100,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	20	3,100	1.2 U	1.6 UJ	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	NS	NS	4.1 U	5.7 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	8,400	52,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	2,400	49,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	1,800	13,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	NS	4.7 U	6.5 U	2.0 U	2.0 U	2.0 U	2.0 U
1,4-Dioxane (P-Dioxane)	100	13,000	120 R	160 R	250 R	250 R	250 R	250 R
2,2-Dichloropropane	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	NS	NS	12 U	16 UJ	5.0 U	5.0 U	5.0 UJ	5.0 UJ
4-Chlorotoluene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	NS	4.7 U	6.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Acetone	50	100,000	12 U	6.6 J	5.0 R	5.0 R	5.0 R	5.4 J
Acrylonitrile	NS	NS	12 U	16 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Benzene	60	4,800	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromobenzene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	NS	NS	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	NS	NS	4.7 U	6.5 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromomethane	NS	NS	2.4 UJ	3.3 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	NS	NS	12 U	16 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Tetrachloride	760	2,400	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	1,100	100,000	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	NS	NS	2.4 U	3.3 UJ	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	370	49,000	1.8 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	NS	NS	5.9 UJ	8.2 U	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Cis-1,2-Dichloroethylene	250	100,000	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	NS	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Cymene	NS	NS	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	NS	NS	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromomethane	NS	NS	12 U	16 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane	NS	NS	6.1 J	16 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Dichloroethylenes	NS	NS	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	NS	5.9 U	8.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	1,000	41,000	1.0 J	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	NS	NS	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	NS	NS	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	260 TS	100,000 TS	2.4 U	3.3 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	120	100,000	12 U	16 UJ	5.0 R	5.0 R	5.0 R	5.0 R
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	12 UJ	16 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Methylene Chloride	50	100,000	12 U	16 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	12,000	100,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 UJ
N-Butylbenzene	12,000	100,000	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	3,900	100,000	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	260 TS	100,000 TS	2.4 U	3.3 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	11,000	100,000	1.2 U	1.6 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	NS	NS	5.3	3.3 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5,900	100,000	5.9 U	8.2 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	930	100,000	2.4 U	3.3 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	1,300	19,000	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	700	100,000	2.0	2.4 UJ	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	NS	NS	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Trans-1,2-Dichloroethene	190	100,000	1.8 U	2.4 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	NS	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Trans-1,4-Dichloro-2-Butene	NS	NS	5.9 U	8.2 UJ	2.5 U	2.5 U	2.5 UJ	2.5 U
Trichloroethylene (TCE)	470	21,000	1.2 U	1.6 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	NS	NS	5.9 UJ	8.2 UJ	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	NS	12 U	16 UJ	5.0 U	5.0 U	5.0 UJ	5.0 U
Vinyl Chloride	20	900	2.4 UJ	3.3 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes	260	100,000	2.4 U	3.3 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 2
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Semi-Volatile Organic Compounds

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-1 (0-2) 20160107	SB-2 (0-2) 20160111	SB-3 (0-2) 20160106	SB-3A (0-2) 20160106	SB-4 (0-2) 20160107
Lab Sample ID	Unrestricted SCO	Restricted Residential SCO	L1600381-13 1/7/2016 1	L1600381-18 1/11/2016 1	L1600381-03 1/6/2016 1	L1600381-04 1/6/2016 1	L1600381-15 1/7/2016 1
Date Sampled							
Dilution Factor							
µg/kg	µg/kg	µg/kg					
1,2,4,5-Tetrachlorobenzene	NS	NS	180 U	180 U	170 U	200 U	190 U
1,2,4-Trichlorobenzene	NS	NS	180 U	180 U	170 U	200 U	190 U
1,2-Dichlorobenzene	1,100	100,000	180 U	180 U	170 U	200 U	190 U
1,3-Dichlorobenzene	2,400	49,000	180 U	180 U	170 U	200 U	190 U
1,4-Dichlorobenzene	1,800	13,000	180 U	180 U	170 U	200 U	190 U
2,4,5-Trichlorophenol	NS	NS	180 U	180 U	170 U	200 U	190 U
2,4,6-Trichlorophenol	NS	NS	110 U	110 U	100 U	120 U	110 U
2,4-Dichlorophenol	NS	NS	170 U	160 U	160 U	180 U	170 U
2,4-Dimethylphenol	NS	NS	180 U	180 U	170 U	200 U	190 U
2,4-Dinitrophenol	NS	NS	890 U	860 U	840 U	950 U	900 U
2,4-Dinitrotoluene	NS	NS	180 U	180 U	170 U	200 U	190 U
2,6-Dinitrotoluene	NS	NS	180 U	180 U	170 U	200 U	190 UJ
2-Chloronaphthalene	NS	NS	180 U	180 U	170 U	200 U	190 U
2-Chlorophenol	NS	NS	180 U	180 U	170 U	200 U	190 U
2-Methylnaphthalene	NS	NS	220 U	210 U	210 U	240 U	230 U
2-Methylphenol (O-Cresol)	330	100,000	180 U	180 U	170 U	200 U	190 U
2-Nitroaniline	NS	NS	180 U	180 U	170 U	200 U	190 U
2-Nitrophenol	NS	NS	400 U	380 U	380 U	420 U	410 U
3- And 4- Methylphenol (Total)	330	100,000	270 U	260 U	250 U	280 U	270 U
3,3'-Dichlorobenzidine	NS	NS	180 UJ	180 UJ	170 UJ	200 UJ	190 U
3-Nitroaniline	NS	NS	180 U	180 UJ	170 U	200 U	190 U
4,6-Dinitro-2-Methylphenol	NS	NS	480 U	460 U	450 U	510 U	490 U
4-Bromophenyl Phenyl Ether	NS	NS	180 U	180 U	170 U	200 U	190 U
4-Chloro-3-Methylphenol	NS	NS	180 U	180 U	170 U	200 U	190 U
4-Chloroaniline	NS	NS	180 U	180 U	170 U	200 U	190 U
4-Chlorophenyl Phenyl Ether	NS	NS	180 U	180 U	170 U	200 U	190 U
4-Nitroaniline	NS	NS	180 U	180 U	170 U	200 U	190 U
4-Nitrophenol	NS	NS	260 U	250 U	240 U	280 U	260 U
Acenaphthene	20,000	100,000	150 U	140 U	140 U	160 U	150 U
Acenaphthylene	100,000	100,000	150 U	140 U	140 U	93 J	150 U
Acetophenone	NS	NS	180 U	180 U	170 U	200 U	190 U
Anthracene	100,000	100,000	110 U	110 U	100 U	58 J	110 U
Benzo(A)Anthracene	1,000	1,000	110 U	47 J	87 J	360 J	33 J
Benzo(A)Pyrene	1,000	1,000	150 U	44 J	71 J	310 J	150 U
Benzo(B)Fluoranthene	1,000	1,000	110 U	45 J	99 J	430 J	110 U
Benzo(G,H,I)Perylene	100,000	100,000	150 U	24 J	52 J	200 J	150 U
Benzo(K)Fluoranthene	800	3,900	110 U	110 U	30 J	180 J	110 U
Benzoic Acid	NS	NS	600 U	580 UJ	570 U	640 U	610 UJ
Benzyl Alcohol	NS	NS	180 U	180 U	170 U	200 U	190 U
Benzyl Butyl Phthalate	NS	NS	180 U	180 U	170 U	200 U	190 U
Biphenyl (Diphenyl)	NS	NS	420 U	410 U	400 U	450 U	430 U
Bis(2-Chloroethoxy) Methane	NS	NS	200 U	190 U	190 U	210 U	200 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	170 U	160 U	160 U	180 U	170 U
Bis(2-Chloroisopropyl) Ether	NS	NS	220 U	210 UJ	210 U	240 U	230 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	180 U	180 U	170 U	200 U	190 UJ
Carbazole	NS	NS	180 U	180 U	170 U	46 J	190 U
Chrysene	1,000	3,900	110 U	50 J	75 J	340 J	34 J
Dibenz(A,H)Anthracene	330	330	110 U	110 U	67 J	100 J	110 U
Dibenzofuran	7,000	59,000	180 U	180 U	170 U	200 U	190 U
Diethyl Phthalate	NS	NS	180 U	180 U	170 U	200 U	190 U
Dimethyl Phthalate	NS	NS	180 U	180 U	170 U	200 U	190 U
Di-N-Butyl Phthalate	NS	NS	180 U	180 U	170 U	200 U	190 U
Di-N-Octylphthalate	NS	NS	180 U	180 U	170 U	200 U	190 U
Fluoranthene	100,000	100,000	23 J	100 J	150 J	680 J	46 J
Fluorene	30,000	100,000	180 U	180 U	170 U	200 U	190 U
Hexachlorobenzene	330	1,200	110 U	110 U	100 U	120 U	110 U
Hexachlorobutadiene	NS	NS	180 U	180 U	170 U	200 U	190 U
Hexachlorocyclopentadiene	NS	NS	530 U	510 UJ	500 U	560 UJ	540 UJ
Hexachloroethane	NS	NS	150 U	140 U	140 U	160 U	150 U
Indeno(1,2,3-C,D)Pyrene	500	500	150 U	26 J	58 J	240 J	150 U
Isophorone	NS	NS	170 U	160 U	160 U	180 U	170 U
Naphthalene	12,000	100,000	180 U	180 U	170 U	200 U	190 U
Nitrobenzene	NS	NS	170 U	160 U	160 U	180 U	170 U
N-Nitrosodi-N-Propylamine	NS	NS	180 U	180 U	170 U	200 U	190 U
N-Nitrosodiphenylamine	NS	NS	150 U	140 U	140 U	160 U	150 U
Pentachlorophenol	800	6,700	150 U	140 U	140 U	160 U	150 U
Phenanthrene	100,000	100,000	110 U	69 J	56 J	180 J	26 J
Phenol	330	100,000	180 U	180 U	170 U	200 U	190 U
Pyrene	100,000	100,000	22 J	87 J	130 J	540 J	45 J

† Dilution factor varies

Table 2
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Semi-Volatile Organic Compounds

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-4 (12-14) 20160107 L1600381-16	SB-5 (0-2) 20160107 L1600381-08	SB-5 (12-14) 20160107 L1600381-09	SB-6 (0-2) 20160106 L1600381-01	SB-6 (12-14) 20160106 L1600381-02
Lab Sample ID	Unrestricted SCO	Restricted Residential SCO	1/7/2016	1/7/2016	1/7/2016	1/6/2016	1/6/2016
Date Sampled			1	1	1	1	1
Dilution Factor							
µg/kg	µg/kg	µg/kg					
1,2,4,5-Tetrachlorobenzene	NS	NS	170 U	190 U	170 U	190 U	170 U
1,2,4-Trichlorobenzene	NS	NS	170 U	190 U	170 U	190 U	170 U
1,2-Dichlorobenzene	1,100	100,000	170 U	190 U	170 U	190 U	170 U
1,3-Dichlorobenzene	2,400	49,000	170 U	190 U	170 U	190 U	170 U
1,4-Dichlorobenzene	1,800	13,000	170 U	190 U	170 U	190 U	170 U
2,4,5-Trichlorophenol	NS	NS	170 U	190 U	170 U	190 U	170 U
2,4,6-Trichlorophenol	NS	NS	100 U	110 U	100 U	120 U	100 U
2,4-Dichlorophenol	NS	NS	150 U	170 U	150 U	170 U	150 U
2,4-Dimethylphenol	NS	NS	170 U	190 U	170 U	190 U	170 U
2,4-Dinitrophenol	NS	NS	800 U	900 U	800 U	920 U	810 U
2,4-Dinitrotoluene	NS	NS	170 U	190 U	170 U	190 U	170 U
2,6-Dinitrotoluene	NS	NS	170 UJ	190 U	170 U	190 U	170 U
2-Chloronaphthalene	NS	NS	170 U	190 U	170 U	190 U	170 U
2-Chlorophenol	NS	NS	170 U	190 U	170 U	190 U	170 U
2-Methylnaphthalene	NS	NS	200 U	220 U	200 U	230 U	200 U
2-Methylphenol (O-Cresol)	330	100,000	170 U	190 U	170 U	190 U	170 U
2-Nitroaniline	NS	NS	170 U	190 U	170 U	190 U	170 U
2-Nitrophenol	NS	NS	360 U	400 U	360 U	420 U	360 U
3- And 4- Methylphenol (Total)	330	100,000	240 U	270 U	240 U	280 U	240 U
3,3'-Dichlorobenzidine	NS	NS	170 U	190 UJ	170 UJ	190 UJ	170 UJ
3-Nitroaniline	NS	NS	170 U	190 U	170 U	190 U	170 U
4,6-Dinitro-2-Methylphenol	NS	NS	440 U	490 U	430 U	500 U	440 U
4-Bromophenyl Phenyl Ether	NS	NS	170 U	190 U	170 U	190 UJ	170 UJ
4-Chloro-3-Methylphenol	NS	NS	170 U	190 U	170 U	190 U	170 U
4-Chloroaniline	NS	NS	170 U	190 U	170 U	190 U	170 U
4-Chlorophenyl Phenyl Ether	NS	NS	170 U	190 U	170 U	190 U	170 U
4-Nitroaniline	NS	NS	170 U	190 U	170 U	190 U	170 U
4-Nitrophenol	NS	NS	230 U	260 U	230 U	270 U	240 U
Acenaphthene	20,000	100,000	130 U	150 U	130 U	150 U	130 U
Acenaphthylene	100,000	100,000	130 U	150 U	130 U	150 U	130 U
Acetophenone	NS	NS	170 U	190 U	170 U	190 U	170 U
Anthracene	100,000	100,000	100 U	110 U	100 U	120 U	100 U
Benzo(A)Anthracene	1,000	1,000	100 U	110 U	100 U	120 U	100 U
Benzo(A)Pyrene	1,000	1,000	130 U	150 U	130 U	150 U	130 U
Benzo(B)Fluoranthene	1,000	1,000	100 U	110 U	100 U	120 U	100 U
Benzo(G,H,I)Perylene	100,000	100,000	130 U	150 U	130 U	150 U	130 U
Benzo(K)Fluoranthene	800	3,900	100 U	110 U	100 U	120 U	100 U
Benzoic Acid	NS	NS	540 UJ	610 U	540 U	620 U	540 U
Benzyl Alcohol	NS	NS	170 U	190 U	170 U	190 U	170 U
Benzyl Butyl Phthalate	NS	NS	170 U	190 U	170 U	190 U	170 U
Biphenyl (Diphenyl)	NS	NS	380 U	430 U	380 U	440 U	380 U
Bis(2-Chloroethoxy) Methane	NS	NS	180 U	200 U	180 U	210 U	180 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	150 U	170 U	150 U	170 U	150 U
Bis(2-Chloroisopropyl) Ether	NS	NS	200 U	220 U	200 U	230 UJ	200 UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	170 UJ	190 U	170 U	190 U	170 U
Carbazole	NS	NS	170 U	190 U	170 U	190 U	170 U
Chrysene	1,000	3,900	100 U	110 U	100 U	120 U	100 U
Dibenz(A,H)Anthracene	330	330	100 U	110 U	100 U	120 U	100 U
Dibenzofuran	7,000	59,000	170 U	190 U	170 U	190 U	170 U
Diethyl Phthalate	NS	NS	170 U	190 U	170 U	190 U	170 U
Dimethyl Phthalate	NS	NS	170 U	190 U	170 U	190 U	170 U
Di-N-Butyl Phthalate	NS	NS	170 U	190 U	170 U	190 U	170 U
Di-N-Octylphthalate	NS	NS	170 U	190 U	170 U	190 U	170 U
Fluoranthene	100,000	100,000	100 U	110 U	100 U	120 U	100 U
Fluorene	30,000	100,000	170 U	190 U	170 U	190 U	170 U
Hexachlorobenzene	330	1,200	100 U	110 U	100 U	120 UJ	100 UJ
Hexachlorobutadiene	NS	NS	170 U	190 U	170 U	190 U	170 U
Hexachlorocyclopentadiene	NS	NS	480 UJ	540 U	480 U	550 U	480 U
Hexachloroethane	NS	NS	130 U	150 U	130 U	150 U	130 U
Indeno(1,2,3-C,D)Pyrene	500	500	130 U	150 U	130 U	150 U	130 U
Isophorone	NS	NS	150 U	170 U	150 U	170 U	150 U
Naphthalene	12,000	100,000	170 U	190 U	170 U	190 U	170 U
Nitrobenzene	NS	NS	150 U	170 U	150 U	170 U	150 U
N-Nitrosodi-N-Propylamine	NS	NS	170 U	190 U	170 U	190 U	170 U
N-Nitrosodiphenylamine	NS	NS	130 U	150 U	130 U	150 UJ	130 UJ
Pentachlorophenol	800	6,700	130 U	150 U	130 U	150 U	130 U
Phenanthrene	100,000	100,000	100 U	110 U	100 U	120 U	100 U
Phenol	330	100,000	170 U	190 U	170 U	190 U	170 U
Pyrene	100,000	100,000	100 U	110 U	100 U	120 U	100 U

† Dilution factor varies

Table 2
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Semi-Volatile Organic Compounds

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-7 (0-2) 20160107	SB-8 (0-2) 20160107	SB-9 (0-2) 20160107	SB-10 (0-2) 20160111	SB-10 (12-14) 20160111
Lab Sample ID	Unrestricted SCO	Restricted Residential SCO	L1600381-10 1/7/2016 1	L1600381-12 1/7/2016 1	L1600381-14 1/7/2016 1	L1600381-19 1/11/2016 1/2 †	L1600381-20 1/11/2016 1
Date Sampled							
Dilution Factor							
µg/kg	µg/kg	µg/kg					
1,2,4,5-Tetrachlorobenzene	NS	NS	190 U	170 U	180 U	180 U	170 U
1,2,4-Trichlorobenzene	NS	NS	190 U	170 U	180 U	180 U	170 U
1,2-Dichlorobenzene	1,100	100,000	190 U	170 U	180 U	180 U	170 U
1,3-Dichlorobenzene	2,400	49,000	190 U	170 U	180 U	180 U	170 U
1,4-Dichlorobenzene	1,800	13,000	190 U	170 U	180 U	180 U	170 U
2,4,5-Trichlorophenol	NS	NS	190 U	170 U	180 U	180 U	170 U
2,4,6-Trichlorophenol	NS	NS	120 U	100 U	110 U	110 U	100 U
2,4-Dichlorophenol	NS	NS	170 U	150 U	160 U	160 U	150 U
2,4-Dimethylphenol	NS	NS	190 U	170 U	180 U	180 U	170 U
2,4-Dinitrophenol	NS	NS	920 U	810 U	870 U	860 U	820 U
2,4-Dinitrotoluene	NS	NS	190 U	170 U	180 U	180 U	170 U
2,6-Dinitrotoluene	NS	NS	190 U	170 U	180 UJ	180 U	170 U
2-Chloronaphthalene	NS	NS	190 U	170 U	180 U	180 U	170 U
2-Chlorophenol	NS	NS	190 U	170 U	180 U	180 U	170 U
2-Methylnaphthalene	NS	NS	230 U	200 U	220 U	420	200 U
2-Methylphenol (O-Cresol)	330	100,000	190 U	170 U	180 U	180 U	170 U
2-Nitroaniline	NS	NS	190 U	170 U	180 U	180 U	170 U
2-Nitrophenol	NS	NS	410 U	360 U	390 U	390 U	370 U
3- And 4- Methylphenol (Total)	330	100,000	280 U	240 U	260 U	260 U	250 U
3,3'-Dichlorobenzidine	NS	NS	190 UJ	170 UJ	180 U	180 UJ	170 UJ
3-Nitroaniline	NS	NS	190 U	170 U	180 U	180 U	170 U
4,6-Dinitro-2-Methylphenol	NS	NS	500 U	440 U	470 U	460 U	450 U
4-Bromophenyl Phenyl Ether	NS	NS	190 U	170 U	180 U	180 U	170 U
4-Chloro-3-Methylphenol	NS	NS	190 U	170 U	180 U	180 U	170 U
4-Chloroaniline	NS	NS	190 U	170 U	180 U	180 U	170 U
4-Chlorophenyl Phenyl Ether	NS	NS	190 U	170 U	180 U	180 U	170 U
4-Nitroaniline	NS	NS	190 U	170 U	180 U	180 U	170 U
4-Nitrophenol	NS	NS	270 U	240 U	250 U	250 U	240 U
Acenaphthene	20,000	100,000	150 U	130 U	140 U	1,000	140 U
Acenaphthylene	100,000	100,000	150 U	130 U	140 U	270	140 U
Acetophenone	NS	NS	190 U	170 U	180 U	180 U	170 U
Anthracene	100,000	100,000	120 U	100 U	110 U	1,200	100 U
Benzo(A)Anthracene	1,000	1,000	68 J	19 J	31 J	3,400	27 J
Benzo(A)Pyrene	1,000	1,000	48 J	130 U	140 U	3,100	140 U
Benzo(B)Fluoranthene	1,000	1,000	63 J	100 U	41 J+	4,500	100 U
Benzo(G,H,I)Perylene	100,000	100,000	32 J	130 U	28 J	1,700	140 U
Benzo(K)Fluoranthene	800	3,900	120 U	100 U	110 U	1,500	100 U
Benzoic Acid	NS	NS	620 U	540 U	580 UJ	580 UJ	560 UJ
Benzyl Alcohol	NS	NS	190 U	170 U	180 U	180 U	170 U
Benzyl Butyl Phthalate	NS	NS	190 U	170 U	180 U	180 U	170 U
Biphenyl (Diphenyl)	NS	NS	440 U	380 U	410 U	100 J	390 U
Bis(2-Chloroethoxy) Methane	NS	NS	210 U	180 U	190 U	190 U	180 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	170 U	150 U	160 U	160 U	150 U
Bis(2-Chloroisopropyl) Ether	NS	NS	230 U	200 U	220 U	210 UJ	200 UJ
Bis(2-Ethylhexyl) Phthalate	NS	NS	190 U	170 U	180 UJ	180 U	170 U
Carbazole	NS	NS	190 U	170 U	180 U	1,000	170 U
Chrysene	1,000	3,900	55 J	100 U	30 J+	3,500	22 J
Dibenz(A,H)Anthracene	330	330	120 U	100 U	110 U	530	100 U
Dibenzofuran	7,000	59,000	190 U	170 U	180 U	710	170 U
Diethyl Phthalate	NS	NS	190 U	170 U	180 U	180 U	170 U
Dimethyl Phthalate	NS	NS	190 U	170 U	180 U	180 U	170 U
Di-N-Butyl Phthalate	NS	NS	190 U	170 U	180 U	180 U	170 U
Di-N-Octylphthalate	NS	NS	190 U	170 U	180 U	180 U	170 U
Fluoranthene	100,000	100,000	160	30 J	36 J	8,700 D	50 J
Fluorene	30,000	100,000	190 U	170 U	180 U	840	170 U
Hexachlorobenzene	330	1,200	120 U	100 U	110 U	110 U	100 U
Hexachlorobutadiene	NS	NS	190 U	170 U	180 U	180 U	170 U
Hexachlorocyclopentadiene	NS	NS	550 U	480 U	520 UJ	510 UJ	490 UJ
Hexachloroethane	NS	NS	150 U	130 U	140 U	140 U	140 U
Indeno(1,2,3-C,D)Pyrene	500	500	35 J	130 U	29 J	2,000	140 U
Isophorone	NS	NS	170 U	150 U	160 U	160 U	150 U
Naphthalene	12,000	100,000	190 U	170 U	180 U	1,200	170 U
Nitrobenzene	NS	NS	170 U	150 U	160 U	160 U	150 U
N-Nitrosodi-N-Propylamine	NS	NS	190 U	170 U	180 U	180 U	170 U
N-Nitrosodiphenylamine	NS	NS	150 U	130 U	140 U	140 U	140 U
Pentachlorophenol	800	6,700	150 U	130 U	140 U	140 U	140 U
Phenanthrene	100,000	100,000	130	100 U	110 U	7,100	46 J
Phenol	330	100,000	190 U	170 U	180 U	180 U	170 U
Pyrene	100,000	100,000	120	24 J	33 J	5,700	40 J

† Dilution factor varies

Table 2
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Semi-Volatile Organic Compounds

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-11 (0-2) 20160107	SB-12 (0-2) 20160111	SB-13 (0-2) 20160107	FB-1 20160106
Lab Sample ID	Unrestricted	Restricted	L1600381-07	L1600381-21	L1600381-11	L1600381-05
Date Sampled	SCO	Residential	1/7/2016	1/11/2016	1/7/2016	1/6/2016
Dilution Factor		SCO	1	1/2 †	1	1
µg/kg	µg/kg	µg/kg				
1,2,4,5-Tetrachlorobenzene	NS	NS	200 U	180 U	190 U	10 U
1,2,4-Trichlorobenzene	NS	NS	200 U	180 U	190 U	5.0 U
1,2-Dichlorobenzene	1,100	100,000	200 U	180 U	190 U	2.0 U
1,3-Dichlorobenzene	2,400	49,000	200 U	180 U	190 U	2.0 U
1,4-Dichlorobenzene	1,800	13,000	200 U	180 U	190 U	2.0 U
2,4,5-Trichlorophenol	NS	NS	200 U	180 U	190 U	5.0 U
2,4,6-Trichlorophenol	NS	NS	120 U	110 U	110 U	5.0 U
2,4-Dichlorophenol	NS	NS	180 U	160 U	170 U	5.0 U
2,4-Dimethylphenol	NS	NS	200 U	180 U	190 U	5.0 U
2,4-Dinitrophenol	NS	NS	980 U	870 U	910 U	20 UJ
2,4-Dinitrotoluene	NS	NS	200 U	180 U	190 U	5.0 U
2,6-Dinitrotoluene	NS	NS	200 U	180 U	190 U	5.0 U
2-Chloronaphthalene	NS	NS	200 U	180 U	190 U	2.0 U
2-Chlorophenol	NS	NS	200 U	180 U	190 U	2.0 U
2-Methylnaphthalene	NS	NS	250 U	28 J	230 U	2.0 U
2-Methylphenol (O-Cresol)	330	100,000	200 U	180 U	190 U	5.0 U
2-Nitroaniline	NS	NS	200 U	180 U	190 U	5.0 U
2-Nitrophenol	NS	NS	440 U	390 U	410 U	10 U
3- And 4- Methylphenol (Total)	330	100,000	300 U	64 J	270 U	5.0 U
3,3'-Dichlorobenzidine	NS	NS	200 UJ	180 UJ	190 UJ	5.0 U
3-Nitroaniline	NS	NS	200 U	180 U	190 U	5.0 U
4,6-Dinitro-2-Methylphenol	NS	NS	530 U	470 U	490 U	10 UJ
4-Bromophenyl Phenyl Ether	NS	NS	200 U	180 U	190 U	2.0 U
4-Chloro-3-Methylphenol	NS	NS	200 U	180 U	190 U	2.0 U
4-Chloroaniline	NS	NS	200 U	180 U	190 U	5.0 U
4-Chlorophenyl Phenyl Ether	NS	NS	200 U	180 U	190 U	2.0 U
4-Nitroaniline	NS	NS	200 U	180 U	190 U	5.0 U
4-Nitrophenol	NS	NS	290 U	250 U	270 U	10 U
Acenaphthene	20,000	100,000	160 U	120 J	150 U	2.0 U
Acenaphthylene	100,000	100,000	160 U	380	150 U	2.0 U
Acetophenone	NS	NS	200 U	180 U	190 U	5.0 U
Anthracene	100,000	100,000	120 U	1,000	110 U	2.0 U
Benzo(A)Anthracene	1,000	1,000	59 J	5,100	58 J	2.0 U
Benzo(A)Pyrene	1,000	1,000	160 U	4,100	58 J	2.0 U
Benzo(B)Fluoranthene	1,000	1,000	50 J	5,600	74 J	2.0 U
Benzo(G,H,I)Perylene	100,000	100,000	35 J	2,000	38 J	2.0 U
Benzo(K)Fluoranthene	800	3,900	120 U	2,000	110 U	2.0 U
Benzoic Acid	NS	NS	660 U	590 UJ	620 U	50 U
Benzyl Alcohol	NS	NS	200 U	180 U	190 U	2.0 U
Benzyl Butyl Phthalate	NS	NS	200 U	180 U	190 U	5.0 U
Biphenyl (Diphenyl)	NS	NS	470 U	410 U	430 U	2.0 U
Bis(2-Chloroethoxy) Methane	NS	NS	220 U	200 U	200 U	5.0 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	NS	NS	180 U	160 U	170 U	2.0 U
Bis(2-Chloroisopropyl) Ether	NS	NS	250 U	220 UJ	230 U	2.0 U
Bis(2-Ethylhexyl) Phthalate	NS	NS	200 U	180 U	190 U	3.0 U
Carbazole	NS	NS	200 U	210	190 U	2.0 U
Chrysene	1,000	3,900	49 J	4,000	53 J	2.0 U
Dibenz(A,H)Anthracene	330	330	120 U	670	110 U	2.0 U
Dibenzofuran	7,000	59,000	200 U	49 J	190 U	2.0 U
Diethyl Phthalate	NS	NS	200 U	180 U	190 U	5.0 U
Dimethyl Phthalate	NS	NS	200 U	180 U	190 U	5.0 U
Di-N-Butyl Phthalate	NS	NS	200 U	180 U	190 U	5.0 U
Di-N-Octylphthalate	NS	NS	200 U	180 U	190 U	5.0 U
Fluoranthene	100,000	100,000	97 J	11,000 D	90 J	2.0 U
Fluorene	30,000	100,000	200 U	170 J	190 U	2.0 U
Hexachlorobenzene	330	1,200	120 U	110 U	110 U	2.0 U
Hexachlorobutadiene	NS	NS	200 U	180 U	190 U	2.0 U
Hexachlorocyclopentadiene	NS	NS	590 U	520 UJ	540 U	20 UJ
Hexachloroethane	NS	NS	160 U	140 U	150 U	2.0 U
Indeno(1,2,3-C,D)Pyrene	500	500	30 J	2,400	49 J	2.0 U
Isophorone	NS	NS	180 U	160 U	170 U	5.0 U
Naphthalene	12,000	100,000	200 U	69 J	190 U	2.0 U
Nitrobenzene	NS	NS	180 U	160 U	170 U	2.0 U
N-Nitrosodi-N-Propylamine	NS	NS	200 U	180 U	190 U	5.0 U
N-Nitrosodiphenylamine	NS	NS	160 U	140 U	150 U	2.0 U
Pentachlorophenol	800	6,700	160 U	140 U	150 U	10 U
Phenanthrene	100,000	100,000	71 J	3,000	49 J	2.0 U
Phenol	330	100,000	200 U	180 U	190 U	5.0 U
Pyrene	100,000	100,000	110 J	9,000 D	80 J	2.0 U

† Dilution factor varies

Table 3
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Polychlorinated Biphenyls

Client ID Lab Sample ID Date Sampled	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-1 (0-2) 20160107 L1600381-13 1/7/2016	SB-2 (0-2) 20160111 L1600381-18 1/11/2016	SB-3 (0-2) 20160106 L1600381-03 1/6/2016	SB-3A (0-2) 20160106 L1600381-04 1/6/2016	SB-4 (0-2) 20160107 L1600381-15 1/7/2016	SB-4 (12-14) 20160107 L1600381-16 1/7/2016	SB-5 (0-2) 20160107 L1600381-08 1/7/2016
µg/kg	µg/kg	µg/kg							
PCB-1016 (Aroclor 1016)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1221 (Aroclor 1221)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1232 (Aroclor 1232)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1242 (Aroclor 1242)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1248 (Aroclor 1248)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1254 (Aroclor 1254)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1260 (Aroclor 1260)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1262 (Aroclor 1262)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
PCB-1268 (Aroclor 1268)	NS	NS	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U
Polychlorinated Biphenyl (PCBs)	100	1,000	36.8 U	34.4 U	33.5 U	39.8 U	36.8 U	32.6 U	35.8 U

Table 3
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Polychlorinated Biphenyls

Client ID Lab Sample ID Date Sampled	NYSDEC Part 375 Unrestricted SCO µg/kg	NYSDEC Part 375 Restricted Residential SCO µg/kg	SB-5 (12-14) 20160107 L1600381-09 1/7/2016	SB-6 (0-2) 20160106 L1600381-01 1/6/2016	SB-6 (12-14) 20160106 L1600381-02 1/6/2016	SB-7 (0-2) 20160107 L1600381-10 1/7/2016	SB-8 (0-2) 20160107 L1600381-12 1/7/2016	SB-9 (0-2) 20160107 L1600381-14 1/7/2016	SB-10 (0-2) 20160111 L1600381-19 1/11/2016
PCB-1016 (Aroclor 1016)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1221 (Aroclor 1221)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1232 (Aroclor 1232)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1242 (Aroclor 1242)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1248 (Aroclor 1248)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1254 (Aroclor 1254)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1260 (Aroclor 1260)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1262 (Aroclor 1262)	NS	NS	33.1 U	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
PCB-1268 (Aroclor 1268)	NS	NS	8.05 J	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U
Polychlorinated Biphenyl (PCBs)	100	1,000	8.05 J	37.9 U	33.3 U	36.6 U	33.4 U	36.4 U	34.5 U

Table 3
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Polychlorinated Biphenyls

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-10 (12-14) 20160111 L1600381-20 1/11/2016	SB-11 (0-2) 20160107 L1600381-07 1/7/2016	SB-12 (0-2) 20160111 L1600381-21 1/11/2016	SB-13 (0-2) 20160107 L1600381-11 1/7/2016	FB-1 20160106 L1600381-05 1/6/2016
Lab Sample ID							
Date Sampled							
$\mu\text{g}/\text{kg}$	$\mu\text{g}/\text{kg}$	$\mu\text{g}/\text{kg}$					
PCB-1016 (Aroclor 1016)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1221 (Aroclor 1221)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1232 (Aroclor 1232)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1242 (Aroclor 1242)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1248 (Aroclor 1248)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1254 (Aroclor 1254)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1260 (Aroclor 1260)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1262 (Aroclor 1262)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
PCB-1268 (Aroclor 1268)	NS	NS	33.5 U	39.6 U	35 U	37.4 U	0.083 U
Polychlorinated Biphenyl (PCBs)	100	1,000	33.5 U	39.6 U	35 U	37.4 U	0.083 U

Tables 4
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY
Subsurface Investigation Soil Analytical Results
Pesticides

Client ID Lab Sample ID Date Sampled µg/kg	NYSDEC Part 375 Unrestricted SCO µg/kg	NYSDEC Part 375 Restricted Residential SCO µg/kg	SB-1 (0-2) 20160107 L1600381-13 1/7/2016	SB-2 (0-2) 20160111 L1600381-18 1/11/2016	SB-3 (0-2) 20160106 L1600381-03 1/6/2016	SB-3A (0-2) 20160106 L1600381-04 1/6/2016	SB-4 (0-2) 20160107 L1600381-15 1/7/2016	SB-4 (12-14) 20160107 L1600381-16 1/7/2016	SB-5 (0-2) 20160107 L1600381-08 1/7/2016
Aldrin	5	97	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	20	480	0.724 U	0.704 U	0.666 U	0.774 U	0.745 U	0.654 U	0.719 U
Alpha Endosulfan	2,400 TS	24,000 TS	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
Beta Bhc (Beta Hexachlorocyclohexane)	36	360	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
Beta Endosulfan	2,400 TS	24,000 TS	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
Chlordane	NS	NS	14.1 U	13.7 U	13 U	15.1 U	14.5 U	12.7 U	14 U
cis-Chlordane	94	4,200	2.17 U	2.11 U	2 U	2.32 U	2.23 U	1.96 U	2.16 U
Delta BHC (Delta Hexachlorocyclohexane)	40	100,000	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
Dieldrin	5	200	1.08 U	1.06 U	0.998 U	1.16 U	1.12 U	0.98 U	1.08 U
Endosulfan Sulfate	2,400 TS	24,000 TS	0.724 U	0.704 U	0.666 U	0.774 U	0.745 U	0.654 U	0.719 U
Endrin	14	11,000	0.724 U	0.704 U	0.666 U	0.774 U	0.745 U	0.654 U	0.719 U
Endrin Ketone	NS	NS	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
Gamma Bhc (Lindane)	100	1,300	0.724 U	0.704 U	0.666 U	0.774 U	0.745 U	0.654 U	0.719 U
Heptachlor	42	2,100	0.868 U	0.845 U	0.799 U	0.928 U	0.894 U	0.784 U	0.862 U
Heptachlor Epoxide	NS	NS	3.26 U	3.17 U	2.99 U	3.48 U	3.35 U	2.94 U	3.23 U
Methoxychlor	NS	NS	3.26 U	3.17 U	2.99 U	3.48 U	3.35 U	2.94 U	3.23 U
P,P'-DDD	3.3	13,000	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
P,P'-DDE	3.3	8,900	1.74 U	1.69 U	1.6 U	1.86 U	1.79 U	1.57 U	1.72 U
P,P'-DDT	3.3	7,900	3.26 U	3.17 U	2.93 J	4.86 J	3.35 U	2.94 U	3.23 U
Toxaphene	NS	NS	32.6 U	31.7 U	29.9 U	34.8 U	33.5 U	29.4 U	32.3 U
trans-Chlordane	NS	NS	2.17 U	2.11 U	2 U	2.32 U	2.23 U	1.96 U	2.16 U

Tables 4
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY
Subsurface Investigation Soil Analytical Results
Pesticides

Client ID Lab Sample ID Date Sampled	NYSDEC Part 375 Unrestricted SCO µg/kg	NYSDEC Part 375 Restricted Residential SCO µg/kg	SB-5 (12-14) 20160107 L1600381-09 1/7/2016	SB-6 (0-2) 20160106 L1600381-01 1/6/2016	SB-6 (12-14) 20160106 L1600381-02 1/6/2016	SB-7 (0-2) 20160107 L1600381-10 1/7/2016	SB-8 (0-2) 20160107 L1600381-12 1/7/2016	SB-9 (0-2) 20160107 L1600381-14 1/7/2016	SB-10 (0-2) 20160111 L1600381-19 1/11/2016
Aldrin	5	97	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	20	480	0.668 U	0.782 U	0.657 U	0.745 U	0.651 U	0.724 U	0.703 U
Alpha Endosulfan	2,400 TS	24,000 TS	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
Beta Bhc (Beta Hexachlorocyclohexane)	36	360	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
Beta Endosulfan	2,400 TS	24,000 TS	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
Chlordane	NS	NS	13 U	15.2 U	12.8 U	14.5 U	12.7 U	14.1 U	13.7 U
cis-Chlordane	94	4,200	2 U	2.35 U	1.97 U	2.24 U	1.95 U	2.17 U	2.11 U
Delta BHC (Delta Hexachlorocyclohexane)	40	100,000	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
Dieldrin	5	200	1 U	1.17 U	0.985 U	1.12 U	0.976 U	1.08 U	1.05 U
Endosulfan Sulfate	2,400 TS	24,000 TS	0.668 U	0.782 U	0.657 U	0.745 U	0.651 U	0.724 U	0.703 U
Endrin	14	11,000	0.668 U	0.782 U	0.657 U	0.745 U	0.651 U	0.724 U	0.703 U
Endrin Ketone	NS	NS	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
Gamma Bhc (Lindane)	100	1,300	0.668 U	0.782 U	0.657 U	0.745 U	0.651 U	0.724 U	0.703 U
Heptachlor	42	2,100	0.802 U	0.939 U	0.788 U	0.894 U	0.781 U	0.868 U	0.843 U
Heptachlor Epoxide	NS	NS	3.01 U	3.52 U	2.96 U	3.35 U	2.93 U	3.26 U	3.16 U
Methoxychlor	NS	NS	3.01 U	3.52 U	2.96 U	3.35 U	2.93 U	3.26 U	3.16 U
P,P'-DDD	3.3	13,000	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
P,P'-DDE	3.3	8,900	1.6 U	1.88 U	1.58 U	1.79 U	1.56 U	1.74 U	1.69 U
P,P'-DDT	3.3	7,900	3.01 U	3.52 U	2.96 U	3.35 U	2.93 U	3.26 U	3.16 U
Toxaphene	NS	NS	30.1 U	35.2 U	29.6 U	33.5 U	29.3 U	32.6 U	31.6 U
trans-Chlordane	NS	NS	2 U	2.35 U	1.97 U	2.24 U	1.95 U	2.17 U	2.11 U

Tables 4
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY
Subsurface Investigation Soil Analytical Results
Pesticides

Client ID Lab Sample ID Date Sampled µg/kg	NYSDEC Part 375 Unrestricted SCO µg/kg	NYSDEC Part 375 Restricted Residential SCO µg/kg	SB-10 (12-14) 20160111 L1600381-20 1/11/2016	SB-11 (0-2) 20160107 L1600381-07 1/7/2016	SB-12 (0-2) 20160111 L1600381-21 1/11/2016	SB-13 (0-2) 20160107 L1600381-11 1/7/2016	FB-1 20160106 L1600381-05 1/6/2016
Aldrin	5	97	1.63 U	1.94 U	1.69 U	1.76 U	0.020 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	20	480	0.681 U	0.81 U	0.706 U	0.733 U	0.020 U
Alpha Endosulfan	2,400 TS	24,000 TS	1.63 U	1.94 U	1.69 U	1.76 U	0.020 U
Beta Bhc (Beta Hexachlorocyclohexane)	36	360	1.63 U	1.94 U	1.69 U	1.76 U	0.020 U
Beta Endosulfan	2,400 TS	24,000 TS	1.63 U	1.94 U	1.69 U	1.76 U	0.040 U
Chlordane	NS	NS	13.3 U	15.8 U	13.8 U	14.3 U	0.200 U
cis-Chlordane	94	4,200	2.04 U	2.43 U	2.12 U	2.2 U	0.020 U
Delta BHC (Delta Hexachlorocyclohexane)	40	100,000	1.63 U	1.94 U	1.69 U	1.76 U	0.020 U
Dieldrin	5	200	1.02 U	1.21 U	1.06 U	1.1 U	0.040 U
Endosulfan Sulfate	2,400 TS	24,000 TS	0.681 U	0.81 U	0.706 U	0.733 U	0.040 U
Endrin	14	11,000	0.681 U	0.81 U	0.706 U	0.733 U	0.040 U
Endrin Ketone	NS	NS	1.63 U	1.94 U	1.69 U	1.76 U	0.040 U
Gamma Bhc (Lindane)	100	1,300	0.681 U	0.81 U	0.706 U	0.733 U	0.020 U
Heptachlor	42	2,100	0.817 U	0.972 U	0.847 U	0.88 U	0.020 U
Heptachlor Epoxide	NS	NS	3.06 U	3.64 U	3.18 U	3.3 U	0.020 U
Methoxychlor	NS	NS	3.06 U	3.64 U	3.18 U	3.3 U	0.200 U
P,P'-DDD	3.3	13,000	1.63 U	1.94 U	1.69 U	1.76 U	0.040 U
P,P'-DDE	3.3	8,900	1.63 U	1.94 U	1.69 U	1.76 U	0.040 U
P,P'-DDT	3.3	7,900	3.06 U	3.64 U	3.18 U	3.3 U	0.040 U
Toxaphene	NS	NS	30.6 U	36.4 U	31.8 U	33 U	0.200 U
trans-Chlordane	NS	NS	2.04 U	2.43 U	2.12 U	2.2 U	0.020 U

Table 5
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results

Metals

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-1 (0-2) 20160107 L1600381-13	SB-1 (6-8) 20160107 L1600380-08	SB-2 (0-2) 20160111 L1600381-18	SB-2 (6-8) 20160111 L1600380-11	SB-3 (0-2) 20160106 L1600381-03	SB-3 (6-8) 20160106 L1600380-02	SB-3A (0-2) 20160106 L1600381-04	SB-3A (6-8) 20160106 L1600380-03
Lab Sample ID	Unrestricted	Restricted	1/7/2016	1/7/2016	1/11/2016	1/11/2016	1/6/2016	1/6/2016	1/6/2016	1/6/2016
Date Sampled										
Dilution Factor	SCO	Residential SCO	1/2 †	1/2 †	1/2 †	1/2 †	1/2 †	1/2 †	1/2 †	1/2/20 †
mg/kg	mg/kg	mg/kg								
Aluminum	NS	NS	9,800	2,800	7,700	5,500	8,500	14,000 J	12,000	6,500 J
Antimony	NS	NS	1.4 J	4.7 U	4.2 U	4.1 U	4.2 U	3.5 J	4.8 U	4.2 UJ
Arsenic	13	16	6.4	3.2	3.0	1.7	8.3	11	10	15
Barium	350	400	72	14	58	26	90 J	43	160 J	44
Beryllium	7.2	72	0.44	0.12 J	0.42	0.26 J	0.44	0.46	0.61	0.59
Cadmium	2.5	4.3	0.89 U	0.95 U	0.85 U	0.83 U	0.84 U	0.90 U	0.96 U	0.84 U
Calcium	NS	NS	2,300	260	5,300	450	5,100 J	640 J	2,200 J	320 J
Chromium, Total	NS	NS	14	8.2	14	15	14	23	18	17
Cobalt	NS	NS	4.3	2.9	4.2	5.1	4.3	7.2	5.5	9.2
Copper	50	270	17	7.8	13	12	33	14	31	20
Iron	NS	NS	16,000	14,000	14,000	18,000	14,000	24,000 J	19,000	39,000 J
Lead	63	400	3,700	4.7 U	30	4.1 U	150	4.5 U	140	42 U
Magnesium	NS	NS	1,700	950	1,400	1,400	3,000 J	2,400	1,700 J	1,600
Manganese	1,600	2,000	330	210	430	350	500	460 J	630	1,200 J
Mercury	0.18	0.81	0.16	0.08 U	0.52	0.05 J	2.2	0.10	1.8	0.02 J
Nickel	30	310	8.6	5.9	11	13	7.9	13	9.8	19
Potassium	NS	NS	390	310	380	560	430	640	540	560
Selenium	3.9	180	1.8 U	1.9 U	1.7 U	1.6 U	1.7 U	1.8 U	1.9 U	1.7 U
Silver	2	180	0.89 U	0.95 U	0.85 U	0.83 U	0.84 U	0.90 U	0.96 U	0.84 U
Sodium	NS	NS	91 J	38 J	160 J	100 J	120 J	55 J	130 J	39 J
Thallium	NS	NS	1.8 U	1.9 U	1.7 U	1.6 U	1.7 U	1.8 U	1.9 U	1.7 U
Vanadium	NS	NS	21	10	17	21	18	32	24	29
Zinc	109	10,000	40	9.8	29	17	93	26	140	22

† Dilution factor varies

Table 5
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results

Metals

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-4 (0-2) 20160107	SB-4 (5-7) 20160107	SB-4 (12-14) 20160107	SB-5 (0-2) 20160107	SB-5 (5-7) 20160107	SB-5 (12-14) 20160107	SB-6 (0-2) 20160106	SB-6 (5-7) 20160106
Lab Sample ID	Unrestricted	Restricted	L1600381-15	L1600380-10	L1600381-16	L1600381-08	L1600380-06	L1600381-09	L1600381-01	L1600380-01
Date Sampled			1/7/2016	1/7/2016	1/7/2016	1/7/2016	1/7/2016	1/7/2016	1/6/2016	1/6/2016
Dilution Factor	SCO	Residential SCO	1/2 †	1/2 †	1/2/10 †	1/2 †	1/2/10 †	1/2/10 †	1/2 †	1/2 †
mg/kg	mg/kg	mg/kg								
Aluminum	NS	NS	12,000	3,200	2,400	11,000	3,600	4,000	4,800	3,000 J
Antimony	NS	NS	4.6 U	4.0 U	3.8 U	4.5 U	4.8 U	3.8 U	4.7 U	4.1 U
Arsenic	13	16	6.1	3.2	3.8	6.5	4.0	4.2	8.2	5.5
Barium	350	400	43	15	22	63	12	19	26	19
Beryllium	7.2	72	0.35 J	0.17 J	0.17 J	0.53	0.18 J	0.18 J	0.26 J	0.17 J
Cadmium	2.5	4.3	0.91 U	0.81 U	0.77 U	0.90 U	0.96 U	0.77 U	0.94 U	0.82 U
Calcium	NS	NS	1,100	170	170	1,500	190	2,400	910	1,000 J-
Chromium, Total	NS	NS	22	8.7	6.4	20	9.8	12	15 J	10
Cobalt	NS	NS	6.6	2.5	2.7	6.5	4.5	3.9	3.8	4.7
Copper	50	270	15	7.4	7.3	14	10	11	18	13
Iron	NS	NS	22,000	13,000	20,000	25,000	18,000	19,000	20,000	17,000 J
Lead	63	400	2.4 J	4.0 U	19 U	0.61 J	24 U	19 U	26 J	4.1 U
Magnesium	NS	NS	2,000	810	710	2,000	1,000	1,200	1,200 J	750 J+
Manganese	1,600	2,000	260	250	410	320	260	320	350	270 J
Mercury	0.18	0.81	0.08	0.07 U	0.07 U	0.10	0.09 U	0.07 U	0.14 J+	0.07 U
Nickel	30	310	12	6.0	6.0	12	8.4	7.5	7.8	10
Potassium	NS	NS	600	280	240	520	310	450	390	260
Selenium	3.9	180	1.8 U	1.6 U	1.5 U	1.8 U	1.9 U	1.5 U	1.9 U	1.6 U
Silver	2	180	0.91 U	0.81 U	0.77 U	0.90 U	0.96 U	0.77 U	0.94 U	0.82 U
Sodium	NS	NS	98 J	160 U	24 J	120 J	31 J	60 J	430	100 J
Thallium	NS	NS	1.8 U	1.6 U	1.5 U	1.8 U	1.9 U	1.5 U	1.9 U	1.6 U
Vanadium	NS	NS	29	11	9.1	30	15	15	20	17
Zinc	109	10,000	29	9.5	10	27	12	15	33	14

† Dilution factor varies

Table 5
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results
Metals

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-6 (12-14) 20160106	SB-7 (0-2) 20160107	SB-8 (0-2) 20160107	SB-9 (0-2) 20160107	SB-9 (6-8) 20160107	SB-10 (0-2) 20160111	SB-10 (5-7) 20160111	SB-10 (12-14) 20160111
Lab Sample ID	Unrestricted	Restricted	L1600381-02	L1600381-10	L1600381-12	L1600381-14	L1600380-09	L1600381-19	L1600380-12	L1600381-20
Date Sampled	SCO	Residential SCO	1/6/2016	1/7/2016	1/7/2016	1/7/2016	1/7/2016	1/11/2016	1/11/2016	1/11/2016
Dilution Factor	mg/kg	mg/kg	1/2 †	1/2 †	1/2 †	1/2 †	1/2/10 †	1/2 †	1/2 †	1/2 †
Aluminum	NS	NS	1,900	4,800	4,200	7,900	2,900	5,400	11,000	3,800
Antimony	NS	NS	4.0 U	4.4 U	3.9 U	4.3 U	4.0 U	1.8 J	4.5 U	4.0 U
Arsenic	13	16	4.3	11	5.3	14	3.4	5.0	2.9	1.4
Barium	350	400	17	34	27	47	14	110	44	29
Beryllium	7.2	72	0.11 J	0.26 J	0.20 J	0.45	0.15 J	0.35 J	0.33 J	0.18 J
Cadmium	2.5	4.3	0.81 U	0.88 U	0.78 U	0.87 U	0.79 U	0.86 U	0.89 U	0.80 U
Calcium	NS	NS	200	4,100	5,300	800	130	16,000	690	590
Chromium, Total	NS	NS	6.4	20	16	15	7.2	11	20	14
Cobalt	NS	NS	2.1	6.4	4.6	22	3.2	4.4	7.2	3.7
Copper	50	270	6.4	16	15	13	6.2	30	16	13
Iron	NS	NS	12,000	24,000	22,000	25,000	15,000	15,000	28,000	18,000
Lead	63	400	4.0 U	6.4	3.9 U	17	20 U	190	4.5 U	3.0 J
Magnesium	NS	NS	630	1,500	1,300	1,400	840	2,700	1,700	1,000
Manganese	1,600	2,000	210	420	410	360	330	310	260	460
Mercury	0.18	0.81	0.07 U	0.03 J	0.05 J	0.07 J	0.07 U	0.25	0.03 J	0.07 U
Nickel	30	310	4.6	15	10	62	6.6	9.2	11	9.5
Potassium	NS	NS	350	510	490	340	270	560	440	390
Selenium	3.9	180	1.6 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.8 U	1.6 U
Silver	2	180	0.81 U	0.88 U	0.78 U	0.87 U	0.79 U	0.86 U	0.89 U	0.80 U
Sodium	NS	NS	43 J	150 J	62 J	82 J	160 U	200	40 J	39 J
Thallium	NS	NS	1.6 U	1.8 U	1.6 U	1.7 U	1.6 U	1.7 U	1.8 U	1.6 U
Vanadium	NS	NS	8.5	23	19	21	12	17	28	15
Zinc	109	10,000	8.6	31	24	140	15	140	26	25

† Dilution factor varies

Table 5
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Analytical Results

Metals

Client ID	NYSDEC	NYSDEC	SB-11 (0-2) 20160107	SB-11 (6-8) 20160107	SB-12 (0-2) 20160111	SB-12 (6-8) 20160111	SB-13 (0-2) 20160107	SB-13 (6-8) 20160107	FB-1 20160106	FB-2 20160106
Lab Sample ID	Part 375	Part 375	L1600381-07	L1600380-05	L1600381-21	L1600380-13	L1600381-11	L1600380-07	L1600381-05	L1600380-04
Date Sampled	Unrestricted	Restricted	1/7/2016	1/7/2016	1/11/2016	1/11/2016	1/7/2016	1/7/2016	1/6/2016	1/6/2016
Dilution Factor	SCO	Residential SCO	2/3 †	1/2 †	1/2 †	1/2 †	1/2 †	1/2 †		
mg/kg	mg/kg	mg/kg								
Aluminum	NS	NS	8,700	2,700	8,100	8,400	7,800	7,900	0.10 U	0.10 U
Antimony	NS	NS	1.1 J	4.9 U	4.3 U	5.1 U	4.6 U	4.8 U	0.0500 U	0.0500 U
Arsenic	13	16	6.6	3.8	4.3	3.0	5.0	5.0	0.0050 U	0.0050 U
Barium	350	400	84	23	83	61	64	19	0.0100 U	0.0100 U
Beryllium	7.2	72	0.34 J	0.17 J	0.45	0.51	0.30 J	0.21 J	0.0050 U	0.0050 U
Cadmium	2.5	4.3	0.98 U	0.98 U	0.86 U	1.0 U	0.91 U	0.96 U	0.0050 U	0.0050 U
Calcium	NS	NS	4,800	310	1,600	490	11,000	320	0.10 U	0.082 J
Chromium, Total	NS	NS	14	7.8	13	14	13	15	0.010 U	0.010 U
Cobalt	NS	NS	5.0	2.8	3.4	4.1	5.3	6.2	0.0200 U	0.0200 U
Copper	50	270	88	7.6	17	11	14	12	0.0100 U	0.0100 U
Iron	NS	NS	17,000	17,000	14,000	16,000	16,000	20,000	0.048 J	0.050 U
Lead	63	400	290	4.9 U	170	38	58	4.8 U	0.0100 U	0.0100 U
Magnesium	NS	NS	2,300	690	1,000	950	3,000	1,800	0.10 U	0.10 U
Manganese	1,600	2,000	420	240	380	670	370	240	0.0100 U	0.0100 U
Mercury	0.18	0.81	5.4	0.08 U	0.74	0.18	0.06 J	0.08 U	0.00020 U	0.00020 U
Nickel	30	310	9.8	5.3	7.3	6.7	13	11	0.0250 U	0.0250 U
Potassium	NS	NS	590	310	290	250 J	710	560	2.5 U	2.5 U
Selenium	3.9	180	2.0 U	2.0 U	0.38 J	2.0 U	1.8 U	1.9 U	0.0100 U	0.0100 U
Silver	2	180	0.98 U	0.98 U	0.86 U	1.0 U	0.91 U	0.96 U	0.0070 U	0.0070 U
Sodium	NS	NS	500	74 J	52 J	200 U	180	43 J	2.0 U	2.0 U
Thallium	NS	NS	2.0 U	2.0 U	1.7 U	2.0 U	1.8 U	1.9 U	0.0200 U	0.0200 U
Vanadium	NS	NS	22	12	17	19	22	21	0.0100 U	0.0100 U
Zinc	109	10,000	110	12	72	37	30	22	0.0500 U	0.0500 U

† Dilution factor varies

Table 6
Jamaica 94th Avenue
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Jamaica, NY
Subsurface Investigation Soil Analytical Results
Polycyclic Aromatic Hydrocarbons

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-1 (6-8) 20160107 L1600380-08 1/7/2016 1	SB-2 (6-8) 20160111 L1600380-11 1/11/2016 1	SB-3 (6-8) 20160106 L1600380-02 1/6/2016 1	SB-3A (6-8) 20160106 L1600380-03 1/6/2016 1	SB-4 (5-7) 20160107 L1600380-10 1/7/2016 1	SB-5 (5-7) 20160107 L1600380-06 1/7/2016 1	SB-6 (5-7) 20160106 L1600380-01 1/6/2016 1
Lab Sample ID	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
2-Chloronaphthalene	NS	NS	210 U	170 U	190 U	180 U	170 U	200 U	170 U
2-Methylnaphthalene	NS	NS	250 U	210 U	220 U	210 U	200 U	240 U	200 U
Acenaphthene	20,000	100,000	160 U	140 U	150 U	140 U	140 U	160 U	140 U
Acenaphthylene	100,000	100,000	160 U	140 U	150 U	140 U	140 U	160 U	140 U
Anthracene	100,000	100,000	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Benzo(A)Anthracene	1,000	1,000	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Benzo(A)Pyrene	1,000	1,000	160 U	140 U	150 U	140 U	140 U	160 U	140 U
Benzo(B)Fluoranthene	1,000	1,000	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Benzo(G,H,I)Perylene	100,000	100,000	160 U	140 U	150 U	140 U	140 U	160 U	140 U
Benzo(K)Fluoranthene	800	3,900	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Chrysene	1,000	3,900	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Dibenz(A,H)Anthracene	330	330	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Fluoranthene	100,000	100,000	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Fluorene	30,000	100,000	210 U	170 U	190 U	180 U	170 U	200 U	170 U
Indeno(1,2,3-C,D)Pyrene	500	500	160 U	140 U	150 U	140 U	140 U	160 U	140 U
Naphthalene	12,000	100,000	210 U	170 U	190 U	180 U	170 U	200 U	170 U
Phenanthrene	100,000	100,000	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Pyrene	100,000	100,000	120 U	100 U	110 U	110 U	100 U	120 U	100 U
Total PAHs	NS	NS	ND	ND	ND	ND	ND	ND	ND

Table 6
Jamaica 94th Avenue
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Jamaica, NY

Subsurface Investigation Soil Analytical Results
Polycyclic Aromatic Hydrocarbons

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-9 (6-8) 20160107 L1600380-09	SB-10 (5-7) 20160111 L1600380-12	SB-11 (6-8) 20160107 L1600380-05	SB-12 (6-8) 20160111 L1600380-13	SB-13 (6-8) 20160107 L1600380-07	FB-2 20160106 L1600380-04
Lab Sample ID	Unrestricted	Restricted	1/7/2016	1/11/2016	1/7/2016	1/11/2016	1/7/2016	1/6/2016
Date Sampled								
Dilution	SCO	Residential SCO	1	1	1	1	1	1
µg/kg	µg/kg	µg/kg						
2-Chloronaphthalene	NS	NS	170 U	180 U	200 U	220 U	200 U	2.0 U
2-Methylnaphthalene	NS	NS	200 U	220 U	250 U	260 U	250 U	2.0 U
Acenaphthene	20,000	100,000	130 U	150 U	160 U	170 U	160 U	2.0 U
Acenaphthylene	100,000	100,000	130 U	150 U	160 U	170 U	160 U	2.0 U
Anthracene	100,000	100,000	100 U	110 U	120 U	130 U	120 U	2.0 U
Benzo(A)Anthracene	1,000	1,000	100 U	110 U	120 U	61 J	120 U	2.0 U
Benzo(A)Pyrene	1,000	1,000	130 U	150 U	160 U	170 U	160 U	2.0 U
Benzo(B)Fluoranthene	1,000	1,000	100 U	110 U	120 U	59 J	120 U	2.0 U
Benzo(G,H,I)Perylene	100,000	100,000	130 U	150 U	160 U	170 U	160 U	2.0 U
Benzo(K)Fluoranthene	800	3,900	100 U	110 U	120 U	130 U	120 U	2.0 U
Chrysene	1,000	3,900	100 U	110 U	120 U	50 J	120 U	2.0 U
Dibenz(A,H)Anthracene	330	330	100 U	110 U	120 U	130 U	120 U	2.0 U
Fluoranthene	100,000	100,000	100 U	110 U	120 U	100 J	120 U	2.0 U
Fluorene	30,000	100,000	170 U	180 U	200 U	220 U	200 U	2.0 U
Indeno(1,2,3-C,D)Pyrene	500	500	130 U	150 U	160 U	30 J	160 U	2.0 U
Naphthalene	12,000	100,000	170 U	180 U	200 U	220 U	200 U	2.0 U
Phenanthrene	100,000	100,000	100 U	110 U	120 U	28 J	120 U	2.0 U
Pyrene	100,000	100,000	100 U	110 U	120 U	83 J	120 U	2.0 U
Total PAHs	NS	NS	ND	ND	ND	411	ND	ND

Tables 1-6
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY
Subsurface Investigation Soil Analytical Results
Notes

GENERAL

NS : No soil cleanup objective listed.

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

UJ : The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R : The data are unusable. The sample results are rejected due to serious deficiencies in meeting QA/QC criteria. The analyte may or may not be present in sample.

N : The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

J+ : The result is an estimated quantity, but the result may be biased high.

J- : The result is an estimated quantity, but the result may be biased low.

D : Analyte concentration is from diluted analysis.

P : The Relative Percent Difference between the results for the two columns exceeds the method-specified criteria.

NA : Not applicable.

ND : No detect.

* Sample SB-3A (0-2) 20160106 is a blind duplicate of SB-3 (0-2) 20160106

* Sample SB-3A (6-8) 20160106 is a blind duplicate of SB-3 (6-8) 20160106

SOIL

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

µg/kg : micrograms per kilogram = parts per billion (ppb)

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

Exceedences of Part 375 Unrestricted Soil Cleanup Objectives are highlighted in bold font.

Exceedences of Part 375 Restricted Residential Soil Cleanup Objectives are highlighted in gray.

Table 7
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Groundwater Analytical Results
 Volatile Organic Compounds

Client ID	NYSDEC	MW-1 20160119	MW-2 20160119	MW-2A 20160119	MW-3 20160119	MW-4 20160119	TB20160119	FB20160119
Lab Sample ID	Class GA	L1601674-01	L1601674-02	L1601674-03	L1601674-04	L1601674-05	L1601674-07	L1601674-06
Date Sampled	Ambient Standard	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016
µg/L	µg/L							
1,1,1,2-Tetrachloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,1-Trichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	1	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,1-Dichloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,1-Dichloroethene	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloropropene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,3-Trichlorobenzene	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
1,2,3-Trichloropropane	0.04	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4,5-Tetramethylbenzene	5	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2,4-Trichlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2,4-Trimethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromo-3-Chloropropane	0.04	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,2-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	1	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,3-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Dichlorobenzene	3	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
1,4-Diethyl Benzene	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dioxane (P-Dioxane)	NS	250 R	250 R	250 R	250 R	250 R	250 R	250 R
2,2-Dichloropropane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-Hexanone	50	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorotoluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
4-Ethyltoluene	NS	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Acetone	50	5 R	5 R	5 R	5 R	5 R	2 J	4 J
Acrylonitrile	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Benzene	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromochloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Bromodichloromethane	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromofrom	50	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Bromomethane	5	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ	2.5 UJ
Carbon Disulfide	60	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloroform	7	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Chloromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,2-Dichloroethylene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Cis-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cymene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Dibromochloromethane	50	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
Dibromomethane	5	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dichlorodifluoromethane	5	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Dichloroethylenes	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Diethyl Ether (Ethyl Ether)	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Ethylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Hexachlorobutadiene	0.5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Isopropylbenzene (Cumene)	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
M,P-Xylenes	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Ethyl Ketone (2-Butanone)	50	5 R	5 R	5 R	5 R	5 R	5 R	5 R
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Methylene Chloride	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Naphthalene	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
N-Propylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U	2.5 U
O-Xylene (1,2-Dimethylbenzene)	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Sec-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Styrene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
T-Butylbenzene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tert-Butyl Methyl Ether	10	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethylene (PCE)	5	0.5 UJ	0.27 J	0.26 J	0.31 J	0.9 J	0.9 UJ	0.5 UJ
Toluene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Total, 1,3-Dichloropropene (Cis And Trans)	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,2-Dichloroethene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trans-1,3-Dichloropropene	NS	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trans-1,4-Dichloro-2-Butene	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethylene (TCE)	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
Trichlorofluoromethane	5	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Vinyl Acetate	NS	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U

Table 8
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Groundwater Analytical Results
Semi-Volatile Organic Compounds

Client ID Lab Sample ID Date Sampled µg/L	NYSDEC Class GA Ambient Standard µg/L	MW-1 20160119 L1601674-01 1/19/2016	MW-2 20160119 L1601674-02 1/19/2016	MW-2A 20160119 L1601674-03 1/19/2016	MW-3 20160119 L1601674-04 1/19/2016	MW-4 20160119 L1601674-05 1/19/2016	FB20160119 L1601674-06 1/19/2016
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U	10 U	10 U	10 U
1,2,4-Trichlorobenzene	5	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	3	2 U	2 U	2 U	2 U	2 U	2 U
1,3-Dichlorobenzene	3	2 U	2 U	2 U	2 U	2 U	2 U
1,4-Dichlorobenzene	3	2 U	2 U	2 U	2 U	2 U	2 U
2,4,5-Trichlorophenol	NS	5 U	5 U	5 U	5 U	5 U	5 U
2,4,6-Trichlorophenol	NS	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dichlorophenol	5	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dimethylphenol	50	5 U	5 U	5 U	5 U	5 U	5 U
2,4-Dinitrophenol	10	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	5 U	5 U	5 U	5 U	5 U	5 U
2,6-Dinitrotoluene	5	5 U	5 U	5 U	5 U	5 U	5 U
2-Chloronaphthalene	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Chlorophenol	NS	2 U	2 U	2 U	2 U	2 U	2 U
2-Methylnaphthalene	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
2-Methylphenol (O-Cresol)	NS	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitroaniline	5	5 U	5 U	5 U	5 U	5 U	5 U
2-Nitrophenol	NS	10 U	10 U	10 U	10 U	10 U	10 U
3- And 4- Methylphenol (Total)	NS	5 U	5 U	5 U	5 U	5 U	5 U
3,3'-Dichlorobenzidine	5	5 U	5 U	5 U	5 U	5 U	5 U
3-Nitroaniline	5	5 U	5 U	5 U	5 U	5 U	5 U
4,6-Dinitro-2-Methylphenol	NS	10 U	10 U	10 U	10 U	10 U	10 U
4-Bromophenyl Phenyl Ether	NS	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloro-3-Methylphenol	NS	2 U	2 U	2 U	2 U	2 U	2 U
4-Chloroaniline	5	5 U	5 U	5 U	5 U	5 U	5 U
4-Chlorophenyl Phenyl Ether	NS	2 U	2 U	2 U	2 U	2 U	2 U
4-Nitroaniline	5	5 U	5 U	5 U	5 U	5 U	5 U
4-Nitrophenol	NS	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthene	20	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acenaphthylene	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Acetophenone	NS	5 U	5 U	5 U	5 U	5 U	5 U
Anthracene	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(A)Anthracene	0.002	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(A)Pyrene	0	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(B)Fluoranthene	0.002	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(G,H,I)Perylene	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzo(K)Fluoranthene	0.002	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Benzoic Acid	NS	50 U	50 U	50 U	50 U	50 U	50 U
Benzyl Alcohol	NS	2 U	2 U	2 U	2 U	2 U	2 U
Benzyl Butyl Phthalate	50	5 U	5 U	5 U	5 U	5 U	5 U
Biphenyl (Diphenyl)	5	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroethoxy) Methane	5	5 U	5 U	5 U	5 U	5 U	5 U
Bis(2-Chloroethyl) Ether	1	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Chloroisopropyl) Ether	5	2 U	2 U	2 U	2 U	2 U	2 U
Bis(2-Ethylhexyl) Phthalate	5	3 U	3 U	3 U	3 U	3 U	3 U
Carbazole	NS	2 U	2 U	2 U	2 U	2 U	2 U
Chrysene	0.002	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenz(A,H)Anthracene	NS	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Dibenzofuran	NS	2 U	2 U	2 U	2 U	2 U	2 U
Diethyl Phthalate	50	5 U	5 U	5 U	5 U	5 U	1.2 J
Dimethyl Phthalate	50	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Butyl Phthalate	50	5 U	5 U	5 U	5 U	5 U	5 U
Di-N-Octylphthalate	50	5 U	5 U	5 U	5 U	5 U	5 U
Fluoranthene	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Fluorene	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Hexachlorobenzene	0.04	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Hexachlorobutadiene	0.5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Hexachlorocyclopentadiene	5	20 U	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	5	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Indeno(1,2,3-C,D)Pyrene	0.002	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Isophorone	50	5 U	5 U	5 U	5 U	5 U	5 U
Naphthalene	10	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nitrobenzene	0.4	2 U	2 U	2 U	2 U	2 U	2 U
N-Nitrosodi-N-Propylamine	NS	5 U	5 U	5 U	5 U	5 U	5 U
N-Nitrosodiphenylamine	50	2 U	2 U	2 U	2 U	2 U	2 U
Pentachlorophenol	NS	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U	0.8 U
Phenanthrene	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Phenol	NS	5 U	5 U	5 U	5 U	5 U	5 U
Pyrene	50	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U

Table 9
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Jamaica, NY

Subsurface Investigation Groundwater Analytical Results
Metals

Client ID Lab Sample ID Date Sampled Dilution	NYSDEC Class GA Ambient Standard	MW-1 20160119 L1601674-01 1/19/2016 1/20 †	MW-2 20160119 L1601674-02 1/19/2016 1/20 †	MW-2A 20160119 L1601674-03 1/19/2016 1/20 †	MW-3 20160119 L1601674-04 1/19/2016 1/20 †	MW-4 20160119 L1601674-05 1/19/2016 1/20 †	FB20160119 L1601674-06 1/19/2016 1
Dissolved Metals - mg/L	mg/L						
Aluminum	NS	0.01	0.010 U	0.0115	0.0634	0.0106	NA
Antimony	0.003	0.0030 U	0.0030 U	0.0030 U	0.0030 U	0.0030 U	NA
Arsenic	0.025	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA
Barium	1	0.04444	0.04318	0.04296	0.04445	0.04932	NA
Beryllium	0.003	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA
Cadmium	0.005	0.0002 U	0.0002 U	0.00006 J	0.0002 U	0.0002 U	NA
Calcium	NS	41.5	42.1	41.8	17	28.1	NA
Chromium, Total	0.05	0.0020 U	0.0020 U	0.0020 U	0.00317	0.0020 U	NA
Cobalt	NS	0.00007 J	0.00011 J	0.0001 J	0.00031 J	0.0001 J	NA
Copper	0.2	0.00202	0.001 U	0.001 U	0.001 U	0.00147	NA
Iron	0.3	0.05 U	0.05 U	0.05 U	0.134	0.05 U	NA
Lead	0.025	0.00127	0.001 U	0.001 U	0.001 U	0.001 U	NA
Magnesium	35	4.15	11.3	11.4	5.46	8.38	NA
Manganese	0.3	0.00943	0.01238	0.01274	0.02599	0.01493	NA
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	NA
Nickel	0.1	0.00421	0.00284	0.00374	0.00394	0.00325	NA
Potassium	NS	5.2	4.73	4.71	6.44	4.9	NA
Selenium	0.01	0.005 U	0.00296 J	0.00296 J	0.00309 J	0.00178 J	NA
Silver	0.05	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	NA
Sodium	20	33	36.1	37	82.5	93.5	NA
Thallium	0.0005	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA
Vanadium	NS	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA
Zinc	2	0.00579 J	0.00379 J	0.010 U	0.00905 J	0.010 U	NA

Total Metals - mg/L	mg/L	1/20 †	1	1/20 †	1/20 †	1/20 †	1
Aluminum	NS	0.748	0.299 J	0.55 J	1.15 J+	3.06	0.005 J
Antimony	0.003	0.0020 U	0.002 U	0.0020 U	0.0020 U	0.0020 U	0.002 U
Arsenic	0.025	0.0007	0.0004 J	0.0006	0.0007	0.0021	0.0005 U
Barium	1	0.0519	0.0485	0.0529	0.0588	0.0934	0.0008
Beryllium	0.003	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0002 J	0.0005 U
Cadmium	0.005	0.0002 U	0.0002 U	0.0002 U	0.0001 J	0.0001 J	0.0002 U
Calcium	NS	46.6	43.6	46.7	17.1	30	0.093 J
Chromium, Total	0.05	0.0035	0.0021	0.0034	0.0051	0.0107	0.0005 J
Cobalt	NS	0.0021	0.0011	0.0021	0.0042	0.0102	0.0005 U
Copper	0.2	0.004	0.0018	0.0031	0.0051	0.0157	0.0044
Iron	0.3	2.76	0.845 J	1.73 J	2.99 J+	12	0.015 J
Lead	0.025	0.0072	0.0010 U	0.0012	0.002	0.0076	0.001 U
Magnesium	35	4.04	10.9	11.1	5.4	9.45	0.07 U
Manganese	0.3	0.1326	0.0855 J	0.1643 J	0.3251 J+	0.5548	0.0004 B
Mercury	0.0007	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Nickel	0.1	0.0076	0.0042	0.0069	0.0084	0.0139	0.0019 J
Potassium	NS	5.13	4.63	4.94	6.21	5.55	0.022 J
Selenium	0.01	0.002 J	0.003 J	0.004 J	0.005 J	0.003 J	0.005 U
Silver	0.05	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U	0.0004 U
Sodium	20	28.8	28.4	29.5	72.6	77.1	0.29
Thallium	0.0005	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0001 J	0.0005 U
Vanadium	NS	0.0026 J	0.0009 J	0.0017 J	0.0036 J	0.0114	0.005 U
Zinc	2	0.0061 J	0.0032 J	0.0056 J	0.0141	0.0167	0.01 U

† Dilution Factor Varies

Table 10
Jamaica 94th Avenue
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Jamaica, NY

Subsurface Investigation Groundwater Analytical Results
Polychlorinated Biphenyls

Client ID	NYSDEC	MW-1 20160119	MW-2 20160119	MW-2A 20160119	MW-3 20160119	MW-4 20160119	FB20160119
Lab Sample ID	Class GA	L1601674-01	L1601674-02	L1601674-03	L1601674-04	L1601674-05	L1601674-06
Date Sampled	Ambient Standard	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016	1/19/2016
$\mu\text{g/L}$	$\mu\text{g/L}$						
PCB-1016 (Aroclor 1016)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1221 (Aroclor 1221)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1232 (Aroclor 1232)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1242 (Aroclor 1242)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1248 (Aroclor 1248)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1254 (Aroclor 1254)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1260 (Aroclor 1260)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1262 (Aroclor 1262)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
PCB-1268 (Aroclor 1268)	NS	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U
Polychlorinated Biphenyls (PCBs)	0.09	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U

Table 11
Jamaica 94th Avenue
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Jamaica, NY

Subsurface Investigation Groundwater Analytical Results
Pesticides

Client ID Lab Sample ID Date Sampled	NYSDEC Class GA Ambient Standard	MW-1 20160119 L1601674-01 1/19/2016	MW-2 20160119 L1601674-02 1/19/2016	MW-2A 20160119 L1601674-03 1/19/2016	MW-3 20160119 L1601674-04 1/19/2016	MW-4 20160119 L1601674-05 1/19/2016	FB20160119 L1601674-06 1/19/2016
µg/L	µg/L						
Aldrin	0	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.01	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Alpha Endosulfan	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Beta Endosulfan	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Chlordane	0.05	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
cis-Chlordane	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Dieldrin	0.004	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endosulfan Sulfate	NS	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin	0	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Endrin Ketone	5	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
Gamma Bhc (Lindane)	0.05	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor	0.04	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Heptachlor Epoxide	0.03	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methoxychlor	35	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
P,P'-DDD	0.3	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
P,P'-DDE	0.2	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U
P,P'-DDT	0.2	0.04 U	0.04 U	0.04 U	0.04 U	0.011 J	0.04 U
Toxaphene	0.06	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
trans-Chlordane	NS	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U

Tables 7-11
Jamaica 94th Avenue
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Subsurface Investigation Groundwater Analytical Results
Notes

GENERAL

NS : No soil cleanup objective listed.

U : The analyte was not detected at the indicated concentration.

J : The concentration given is an estimated value.

UJ : The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R : The data are unusable. The sample results are rejected due to serious deficiencies in meeting QA/QC criteria. The analyte may or may not be present in sample.

J+ : The result is an estimated quantity, but the result may be biased high.

* Sample MW-2A 20160119 is a blind duplicate of sample MW-2 20160119

GROUNDWATER

NYSDEC
Class GA
Ambient
Standard : New York State Department of Environmental Conservation Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values.

µg/L : micrograms per Liter = parts per billion (ppb)

mg/L : milligrams per Liter = parts per million (ppm)

Exceedences of NYSDEC Class GA Ambient Standards and Guidelines are highlighted in bold font.

Table 12
Jamaica 94th Avenue
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Jamaica, NY

Subsurface Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

Client ID	NYSDOH 2006	SV-1 20160111	SV-2 20160111	SV-3 20160111	SV-4 20160111	SV-5 20160111	SV-7 20160111	SV-8 20160111
Lab Sample ID	Soil Vapor	L1600773-01	L1600773-02	L1600773-03	L1600773-04	L1600773-05	L1600773-07	L1600773-08
Date Sampled	Intrusion	1/11/2016	1/11/2016	1/11/2016	1/11/2016	1/11/2016	1/11/2016	1/11/2016
Dilution	Air Guideline Value	1	144.5	3.333	1	1.25	1	1
	(Matrix Value)							
ug/m ³	ug/m ³							
1,1,1-Trichloroethane	NS (100)	2.69	158 U	3.64 U	4.99	9.93	3.59	1.09 U
1,1,2,2-Tetrachloroethane	NS	1.37 U	198 U	4.58 U	1.37 U	1.72 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	1.53 U	222 U	5.11 U	1.53 U	1.92 U	1.53 U	1.53 U
1,1,2-Trichloroethane	NS	1.09 U	158 U	3.64 U	1.09 U	1.36 U	1.09 U	1.09 U
1,1-Dichloroethane	NS	0.809 U	117 U	2.70 U	0.809 U	1.01 U	0.809 U	0.809 U
1,1-Dichloroethene	NS	0.793 U	115 U	2.64 U	0.793 U	0.991 U	0.793 U	0.793 U
1,2,4-Trichlorobenzene	NS	1.48 U	215 U	4.95 U	1.48 U	1.86 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	NS	0.983 U	142 U	3.28 U	0.983 U	1.23 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	1.54 U	222 U	5.13 U	1.54 U	1.92 U	1.54 U	1.54 U
1,2-Dichlorobenzene	NS	1.20 U	174 U	4.01 U	1.20 U	1.50 U	1.20 U	1.20 U
1,2-Dichloroethane	NS	0.809 U	117 U	2.70 U	0.809 U	1.01 U	0.809 U	0.809 U
1,2-Dichloropropane	NS	0.924 U	134 U	3.08 U	0.924 U	1.16 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	NS	1.40 U	202 U	4.66 U	1.40 U	1.75 U	1.40 U	1.40 U
1,3,5-Trimethylbenzene (Mesitylene)	NS	0.983 U	142 U	3.28 U	0.983 U	1.23 U	0.983 U	0.983 U
1,3-Butadiene	NS	0.442 U	63.9 U	1.48 U	0.442 U	0.553 U	0.442 U	0.442 U
1,3-Dichlorobenzene	NS	1.20 U	174 U	4.01 U	1.20 U	1.50 U	1.20 U	1.20 U
1,4-Dichlorobenzene	NS	1.20 U	174 U	4.01 U	1.20 U	1.50 U	1.20 U	1.20 U
1,4-Dioxane (P-Dioxane)	NS	0.721 U	104 U	2.40 U	0.721 U	0.901 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	NS	0.934 U	135 U	3.12 U	0.934 U	1.17 U	0.934 U	0.934 U
2-Hexanone	NS	0.820 U	118 U	2.73 U	0.820 U	9.10	0.820 U	0.820 U
4-Ethyltoluene	NS	0.983 U	142 U	3.28 U	0.983 U	1.23 U	0.983 U	0.983 U
Acetone	NS	2.38 U	342 U	7.91 U	7.06	30.4	2.38 U	2.38 U
Allyl Chloride (3-Chloropropene)	NS	0.626 U	90.5 U	2.09 U	0.626 U	0.783 U	0.626 U	0.626 U
Benzene	NS	0.639 U	92.3 U	2.13 U	0.639 U	2.07	0.639 U	0.639 U
Benzyl Chloride	NS	1.04 U	150 U	3.45 U	1.04 U	1.29 U	1.04 U	1.04 U
Bromodichloromethane	NS	1.34 U	194 U	4.47 U	1.34 U	1.67 U	1.34 U	1.34 U
Bromoform	NS	2.07 U	299 U	6.90 U	2.07 U	2.58 U	2.07 U	2.07 U
Bromomethane	NS	0.777 U	112 U	2.59 U	0.777 U	0.971 U	0.777 U	0.777 U
Carbon Disulfide	NS	0.623 U	90.0 U	2.08 U	0.623 U	2.92	0.623 U	0.623 U
Carbon Tetrachloride	NS (5)	1.26 U	182 U	4.20 U	1.26 U	1.57 U	1.26 U	1.26 U
Chlorobenzene	NS	0.921 U	133 U	3.07 U	0.921 U	1.15 U	0.921 U	0.921 U
Chloroethane	NS	0.528 U	76.3 U	1.76 U	0.528 U	0.660 U	0.528 U	0.528 U
Chloroform	NS	38.6	141 U	8.30	94.3	311	2.31	7.91
Chloromethane	NS	0.413 U	59.7 U	1.38 U	0.413 U	0.516 U	0.413 U	0.413 U
Cis-1,2-Dichloroethylene	NS	0.793 U	115 U	2.64 U	0.793 U	0.991 U	0.793 U	0.793 U
Cis-1,3-Dichloropropene	NS	0.908 U	131 U	3.03 U	0.908 U	1.13 U	0.908 U	0.908 U
Cyclohexane	NS	0.688 U	99.5 U	2.30 U	0.688 U	0.861 U	0.688 U	0.688 U
Dibromochloromethane	NS	1.70 U	246 U	5.68 U	1.70 U	2.13 U	1.70 U	1.70 U
Dichlorodifluoromethane	NS	40.9	35100	1010	91.5	265	39.3	76.6
Ethanol	NS	9.42 U	1360 U	31.5 U	9.42 U	18.4	9.42 U	9.42 U
Ethyl Acetate	NS	1.80 U	260 U	6.02 U	1.80 U	7.60	1.80 U	1.80 U
Ethylbenzene	NS	1.13	126 U	2.90 U	2.01	3.40	0.869 U	0.869 U
Hexachlorobutadiene	NS	2.13 U	308 U	7.11 U	2.13 U	2.67 U	2.13 U	2.13 U
Isopropanol	NS	1.24	177 U	4.10 U	1.80	13.0	1.23 U	2.51
M,P-Xylenes	NS	4.69	251 U	5.78 U	8.73	8.77	3.94	3.48
Methyl Ethyl Ketone (2-Butanone)	NS	1.48	213 U	4.93 U	2.55	83.8	2.06	2.93
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	2.05 U	296 U	6.84 U	2.05 U	3.84	2.05 U	2.05 U
Methylene Chloride	60	16.5	251 U	8.72	2.93	2.17 U	1.74 U	1.74 U
N-Heptane	NS	0.820 U	118 U	2.73 U	0.820 U	2.47	0.820 U	0.820 U
N-Hexane	NS	0.705 U	102 U	2.35 U	0.705 U	1.71	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	NS	1.62	126 U	2.90 U	3.42	2.61	1.36	1.10
Styrene	NS	0.852 U	425	2.84 U	0.852 U	1.06 U	0.852 U	0.852 U
Tert-Butyl Alcohol	NS	1.52 U	219 U	5.06 U	2.12	1.89 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	NS	0.721 U	104 U	2.40 U	0.721 U	0.901 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	30 (100)	63.3	196 U	4.52 U	257	50.8	8.48	10.5
Tetrahydrofuran	NS	1.47 U	213 U	4.93 U	1.47 U	1.84 U	1.47 U	1.47 U
Toluene	NS	4.86	109 U	3.96	6.33	29.1	3.47	4.64
Trans-1,2-Dichloroethene	NS	0.793 U	115 U	2.64 U	0.793 U	0.991 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	NS	0.908 U	131 U	3.03 U	0.908 U	1.13 U	0.908 U	0.908 U
Trichloroethylene (TCE)	2 (5)	1.07 U	155 U	3.58 U	6.34	2.27	1.07 U	1.07 U
Trichlorofluoromethane	NS	47.1	381	112	28.9	91.6	21.4	7.81
Vinyl Bromide	NS	0.874 U	126 U	2.92 U	0.874 U	1.09 U	0.874 U	0.874 U
Vinyl Chloride	NS	0.511 U	73.9 U	1.71 U	0.511 U	0.639 U	0.511 U	0.511 U

Table 12
Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, NY

Subsurface Investigation Soil Vapor Analytical Results
Volatile Organic Compounds

GENERAL

NS : No soil cleanup objective listed.

U : The analyte was not detected at the indicated concentration.

SOIL VAPOR

**NYSDOH
Soil Vapor
Intrusion
Air Guidance
Value**

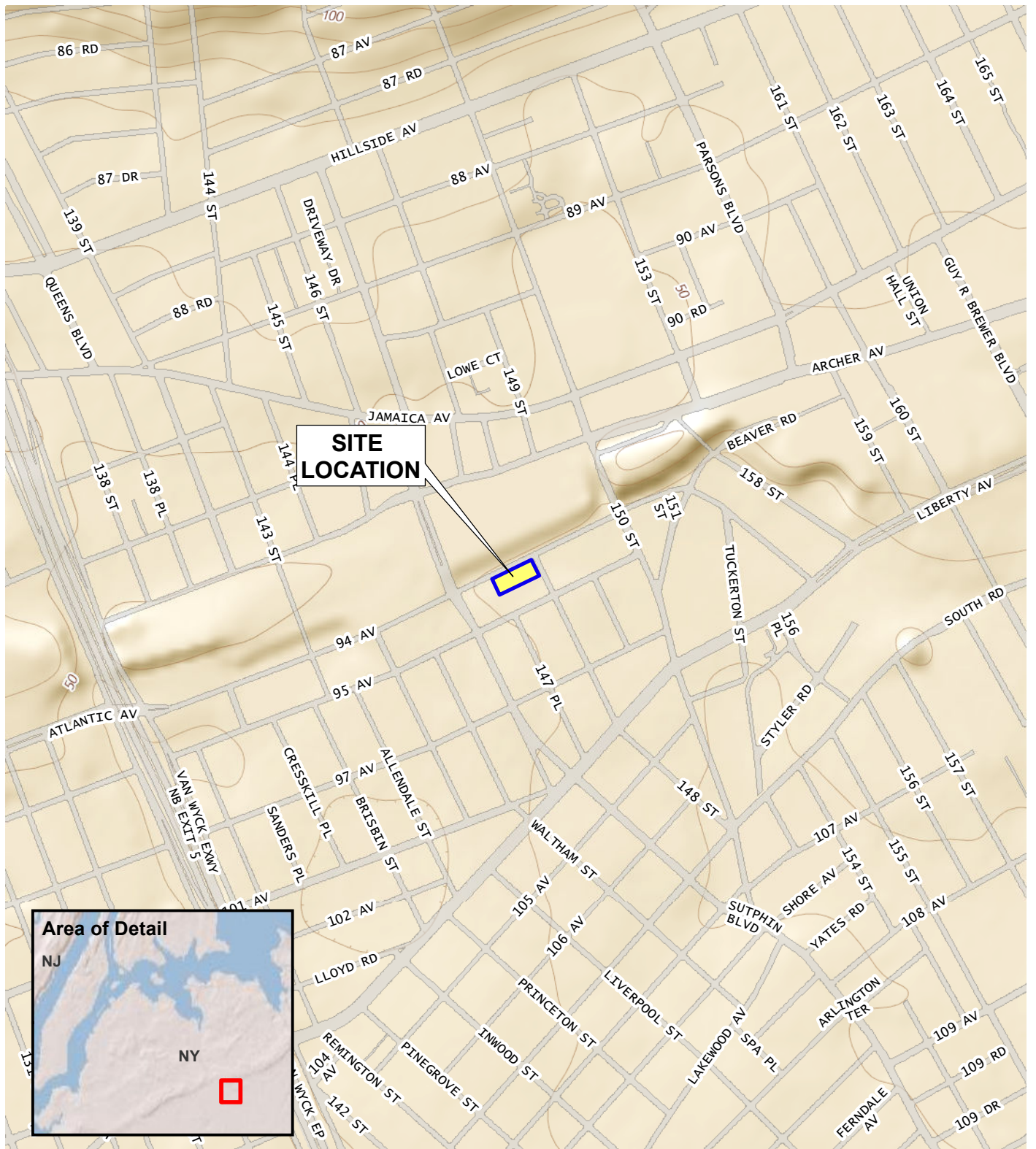
NYSDOH Air Guideline Values (AGVs) and Table 3.3 Matrix 1 and 2 Chemicals presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated September 2013 for change of AGV for PCE and August 2015 for TCE.

$\mu\text{g}/\text{m}^3$: micrograms per cubic meter of air

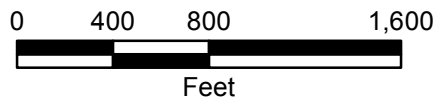
Exceedances of NYSDOH 2006 Air Guidance Values are highlighted in bold font.
Exceedances of Matrix 1 and 2 Values are highlighted in gray.

FIGURES

© 2016 AKRF, Inc. Environmental Consultants\Projects\12292 - ARTIMUS 94.02 148TH ST\Technical\GIS and Graphics\Hazmat\12292 Fig 1 site loc.map.mxd/2/24/2016 12:00:26 PM mvelleux



SOURCE
 USGS 7.5 Minute Topographic Map
 Jamaica Quad 2013



Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, New York



DATE
2/24/2016

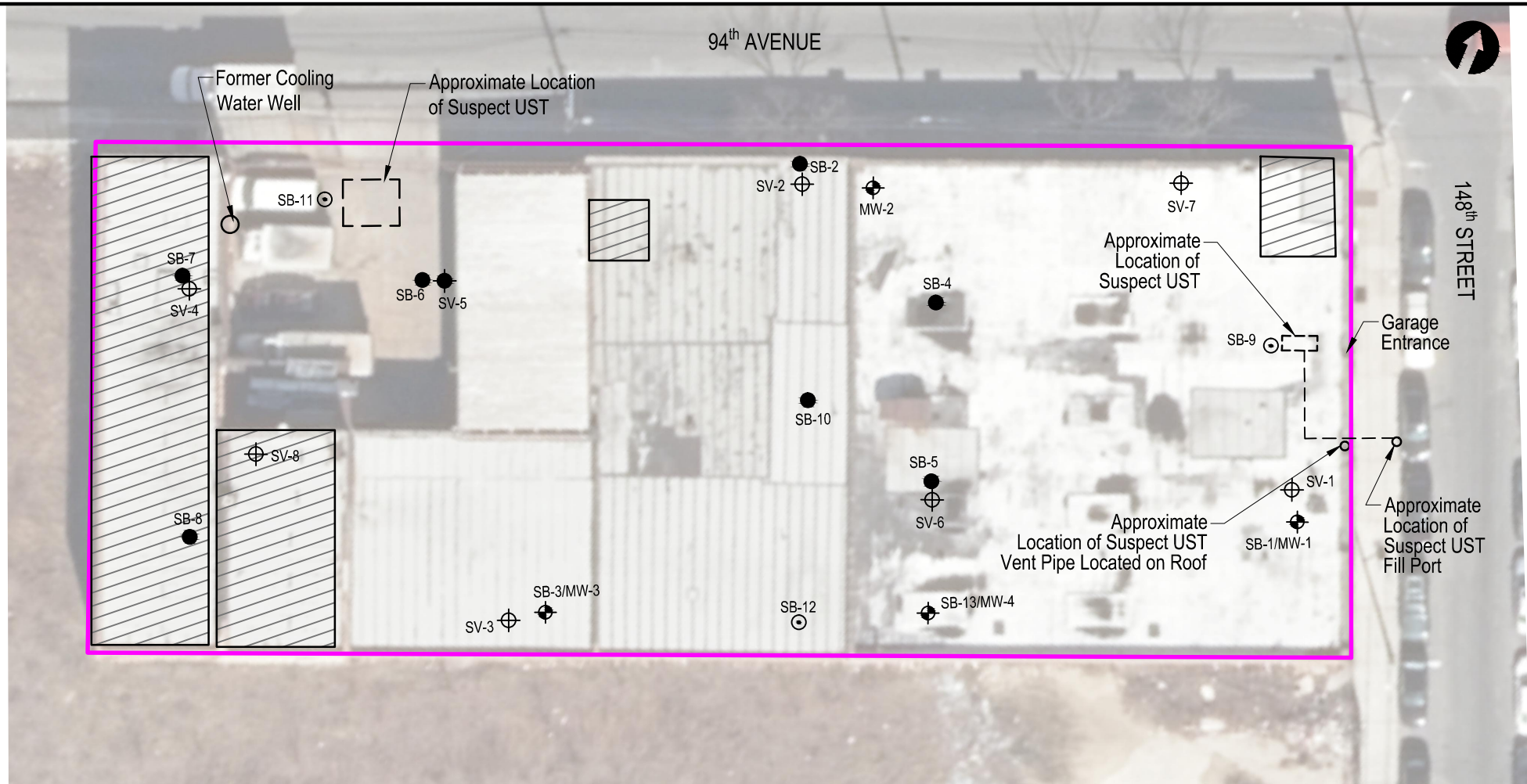
PROJECT NO.
12292

SITE LOCATION

Environmental Consultants
 440 Park Avenue South, New York, NY 10016

FIGURE
1

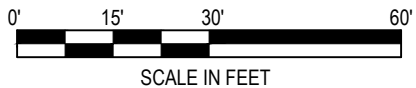
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LEGEND:

- SB-4 ● SOIL BORING
- SB-9 ⊙ SHALLOW SOIL BORING
- SB-1/MW-1 ⊕ SOIL BORING/GROUNDWATER WELL
- SV-1 ⊕ SUB-SLAB SOIL VAPOR SAMPLE
- SV-5 ● SOIL VAPOR SAMPLE
- (pink line) PROPERTY BOUNDARY
- ▨ (hatched) CELLAR

Aerial Source:
2014 New York Statewide Digital Orthoimagery.



Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, New York

SITE PLAN WITH
SAMPLE LOCATIONS



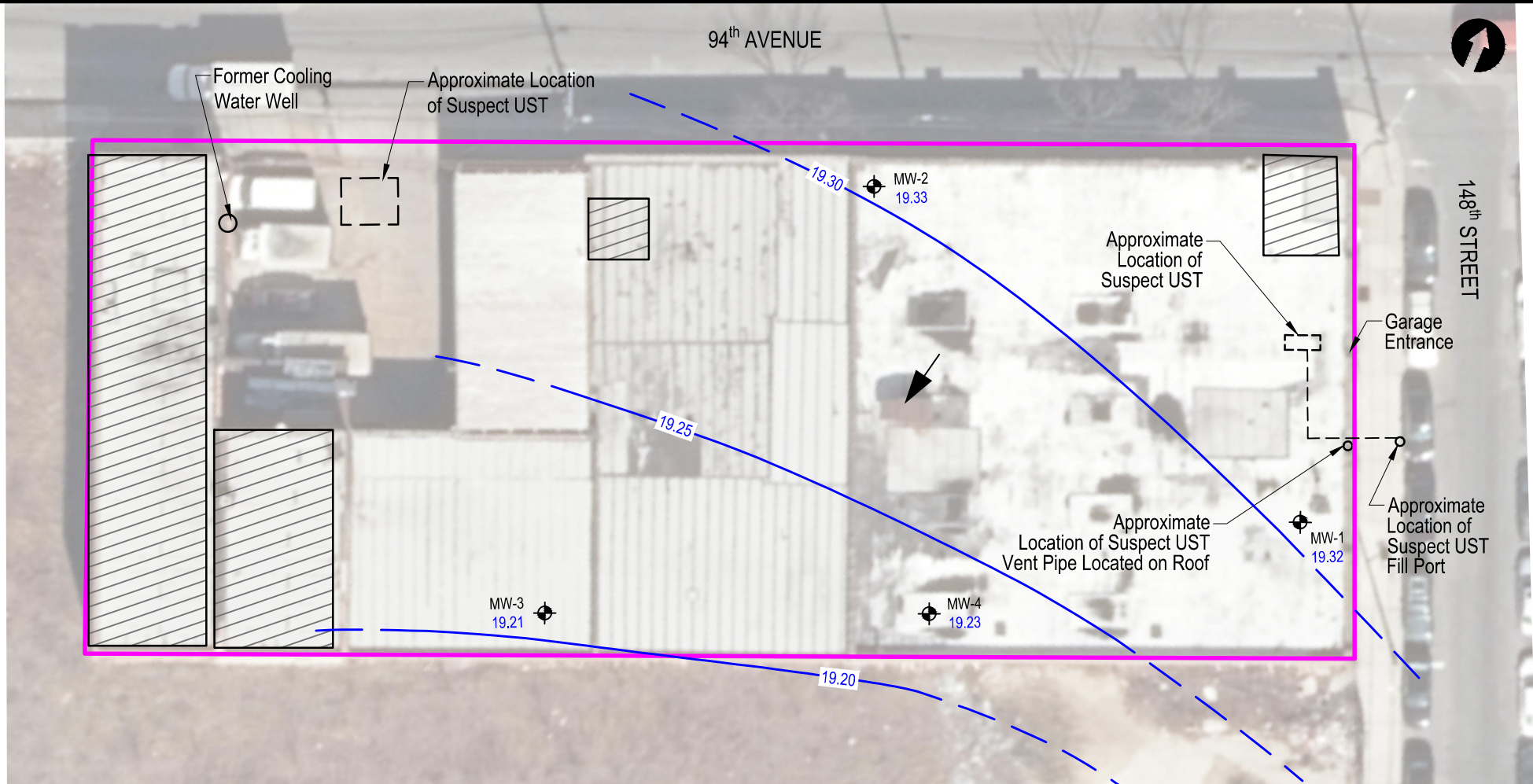
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DATE
6/10/2016

PROJECT NO.
12292

FIGURE
2

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LEGEND:

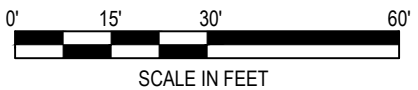
- MW-1 GROUNDWATER WELL
- 19.32 WATER TABLE ELEVATION IN FEET *
- PROPERTY BOUNDARY
- CELLAR

- 19.20 ELEVATION CONTOUR IN FEET (INTERVAL .05) (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

* ELEVATIONS BASED UPON NATIONAL GEODETIC VERTICAL DATUM (NGVD).

Well ID	Top of Casing Elevation (ft)	Depth to Groundwater (ft. below TOC)	Groundwater Elevation (ft.)
MW-1	39.08	19.76	19.32
MW-2	39.11	19.78	19.33
MW-3	40.12	20.91	19.21
MW-4	38.89	19.66	19.23

Aerial Source:
2014 New York Statewide Digital Orthoimagery.



Jamaica 94th Avenue
147-20 94th Avenue
Jamaica, New York

GROUNDWATER CONTOUR MAP
JANUARY 19, 2016



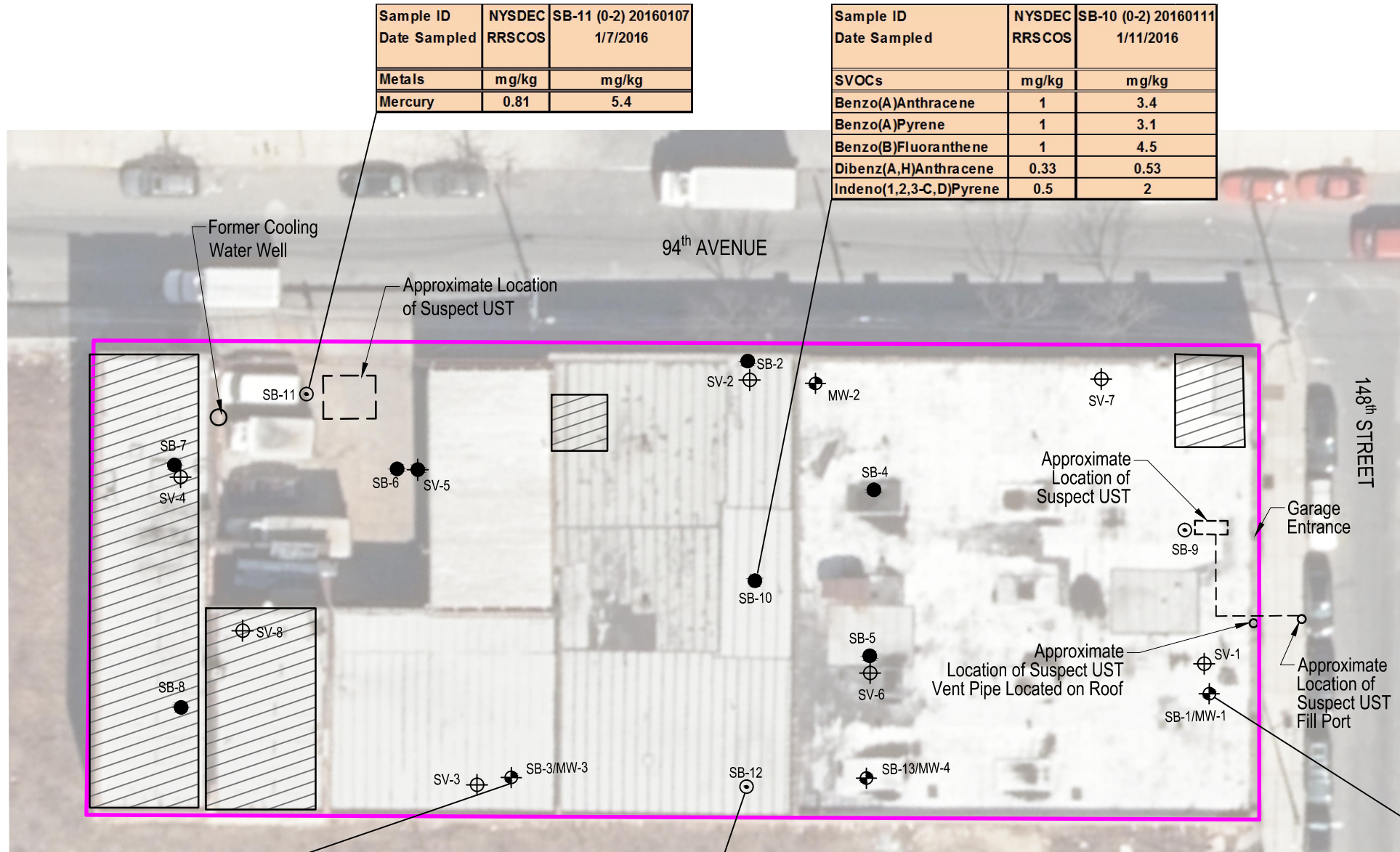
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DATE
2/24/2016

PROJECT NO.
12292

FIGURE
3

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Sample ID	NYSDEC RRSCOS	SB-11 (0-2) 20160107
Date Sampled		1/7/2016
Metals	mg/kg	mg/kg
Mercury	0.81	5.4

Sample ID	NYSDEC RRSCOS	SB-10 (0-2) 20160111
Date Sampled		1/11/2016
SVOCs	mg/kg	mg/kg
Benzo(A)Anthracene	1	3.4
Benzo(A)Pyrene	1	3.1
Benzo(B)Fluoranthene	1	4.5
Dibenz(A,H)Anthracene	0.33	0.53
Indeno(1,2,3-C,D)Pyrene	0.5	2

Sample ID	NYSDEC RRSCOS	SB-1 (0-2) 20160107
Date Sampled		1/7/2016
Metals	mg/kg	mg/kg
Lead	400	3,700

Sample ID	NYSDEC RRSCOS	SB-3 (0-2) 20160106	SB-3A (0-2) 20160106
Date Sampled		1/6/2016	1/6/2016
Metals	mg/kg	mg/kg	mg/kg
Mercury	0.81	2.2	1.8

Sample ID	NYSDEC RRSCOS	SB-12 (0-2) 20160111
Date Sampled		1/11/2016
SVOCs	mg/kg	mg/kg
Benzo(A)Anthracene	1	5.1
Benzo(A)Pyrene	1	4.1
Benzo(B)Fluoranthene	1	5.6
Chrysene	3.9	4
Dibenz(A,H)Anthracene	0.33	0.67
Indeno(1,2,3-C,D)Pyrene	0.5	2.4

SOIL
Part 375 Soil Cleanup Objective
 Restricted Residential Soil Cleanup Objectives listed in New York State Department of Environmental Conservation (NYSDEC) "Part 375" Regulations (6 NYCRR Part 375).

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

Only exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCOs) are shown.

LEGEND:

- SB-4 ● SOIL BORING
- SB-9 ⊙ SHALLOW SOIL BORING
- SB-1/MW-1 ⊕ SOIL BORING/GROUNDWATER WELL
- SV-1 ⊕ SUB-SLAB SOIL VAPOR SAMPLE
- SV-5 ● SOIL VAPOR SAMPLE

- PROPERTY BOUNDARY
- ▨ CELLAR



Sample ID	NYSDEC RRSCOS	SB-1 (0-2) 20160107
Date Sampled		1/7/2016
Metals	mg/kg	mg/kg
Lead	400	3,700

← Sample ID
 ← Sample Date
 ← Concentration in Soil
 Analyte/Compound in Soil

Aerial Source:
 2014 New York Statewide Digital Orthoimagery.

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Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, New York

SOIL SAMPLE CONCENTRATIONS ABOVE NYSDEC RRSCOS

DATE

6/10/2016

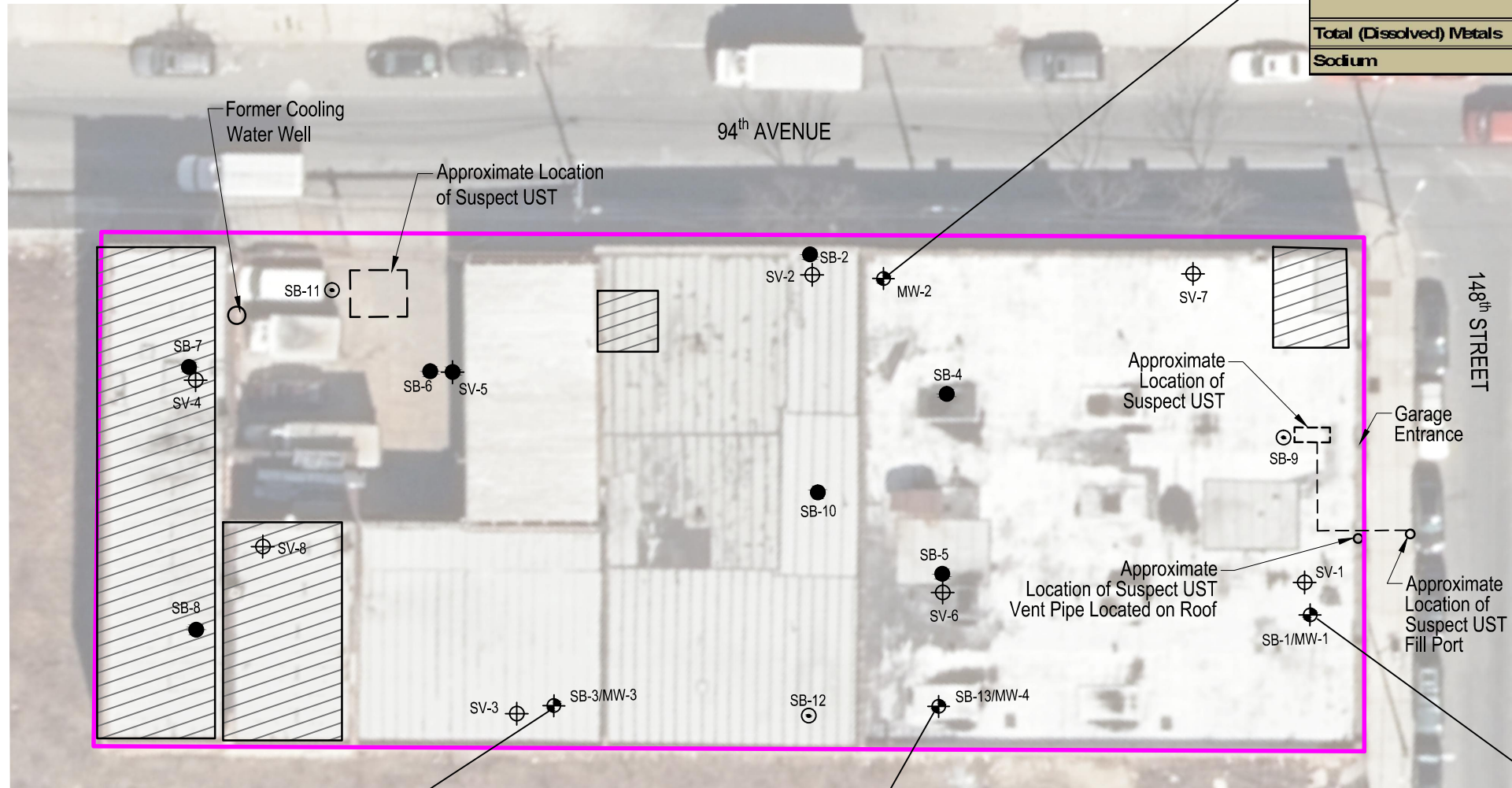
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12292

FIGURE

4

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Sample ID	NYSDEC	MW-2	MW-2A
Date Sampled	AWQS	1/19/2016	1/19/2016
Total (Dissolved) Metals	mg/L	mg/L	mg/L
Sodium	20	36.1	37

Sample ID	NYSDEC	MW-1
Date Sampled	AWQS	1/19/2016
Total (Dissolved) Metals	mg/L	mg/L
Sodium	20	33

Sample ID	NYSDEC	MW-3
Date Sampled	AWQS	1/19/2016
Total (Dissolved) Metals	mg/L	mg/L
Sodium	20	82.5

Sample ID	NYSDEC	MW-4
Date Sampled	AWQS	1/19/2016
Total (Dissolved) Metals	mg/L	mg/L
Sodium	20	93.5

GROUNDWATER

NYSDEC : New York State Department of Environmental Conservation Technical and Operational Guidance
 Class GA : Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values.
 Ambient Standard

µg/L : micrograms per Liter = parts per billion (ppb)
 mg/L : milligrams per Liter = parts per million (ppm)

Exceedances of **NYSDEC Class GA Ambient Standards and Guidelines are highlighted in bold font.**
 Note: Only dissolved metals concentrations are shown

LEGEND:

- SB-4 ● SOIL BORING
- SB-9 ⊙ SHALLOW SOIL BORING
- SB-1/MW-1 ⊕ SOIL BORING/GROUNDWATER WELL
- SV-1 ⊕ SUB-SLAB SOIL VAPOR SAMPLE
- SV-5 ● SOIL VAPOR SAMPLE

- PROPERTY BOUNDARY
- ▨ CELLAR



Aerial Source:
 2014 New York Statewide Digital Orthoimagery.



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Jamaica 94th Avenue
147-20 94th Avenue
 Jamaica, New York

GROUNDWATER CONCENTRATIONS ABOVE AWQS

DATE
6/24/2016

PROJECT NO.
12292

FIGURE

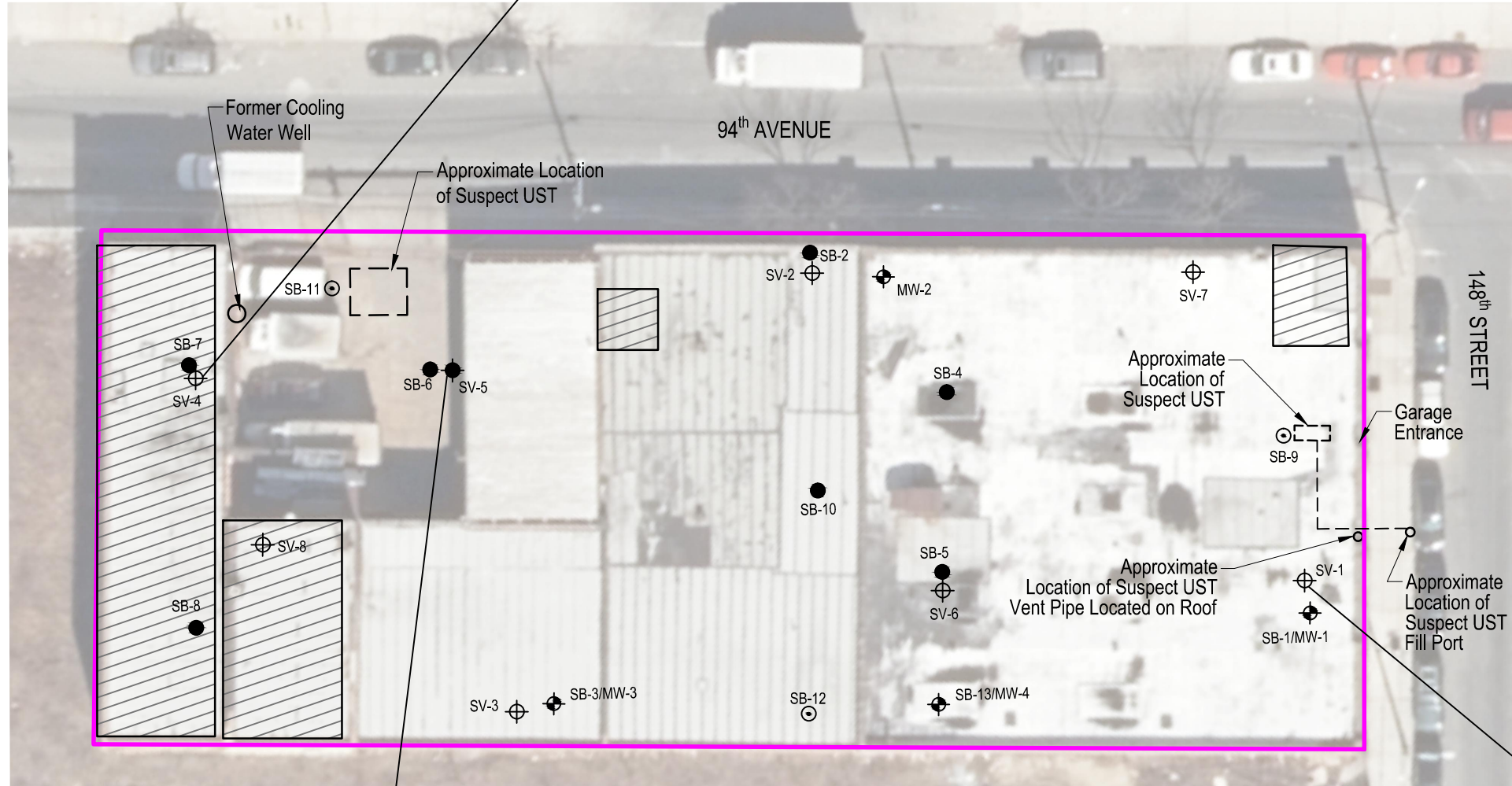
5

Sample ID	NYSDEC	MW-1
Date Sampled	AWQS	1/19/2016
Total (Dissolved) Metals	mg/L	mg/L
Sodium	20	33

← Sample ID
 ← Sample Date
 ← Concentration in Groundwater

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Sample ID Date Sampled	NYSDOH AGV (Matrices)	SV-4 20160111 1/11/2016
VOCs	µg/m ³	µg/m ³
Tetrachloroethylene (PCE)	30 (100)	257
Trichloroethylene (TCE)	2 (5)	6.34



Sample ID Date Sampled	NYSDOH AGV (Matrices)	SV-5 20160111 1/11/2016
VOCs	µg/m ³	µg/m ³
Tetrachloroethylene (PCE)	30 (100)	50.8
Trichloroethylene (TCE)	2 (5)	2.27

Sample ID Date Sampled	NYSDOH AGV (Matrices)	SV-1 20160111 1/11/2016
VOCs	µg/m ³	µg/m ³
Tetrachloroethylene (PCE)	30 (100)	63.3

LEGEND:

- SB-4 ● SOIL BORING
- SB-9 ⊙ SHALLOW SOIL BORING
- SB-1/MW-1 ⊕ SOIL BORING/GROUNDWATER WELL
- SV-1 ⊕ SUB-SLAB SOIL VAPOR SAMPLE
- SV-5 ● SOIL VAPOR SAMPLE

- PROPERTY BOUNDARY
- ▨ CELLAR



SOIL VAPOR

NYSDOH Soil Vapor Intrusion Air Guidance Value
 NYSDOH Air Guideline Values (AGVs) are presented in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated September 2013 for change of AGV for PCE, updated August 2015 for change of AGV for TCE.

NYSDOH Soil Vapor Intrusion Matrix
 NYSDOH Sub-slab Vapor Concentration which may require monitoring or mitigation as presented in the Matrix 1 and Matrix 2 tables of the Final Guidance in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document").

µg/m³ : micrograms per cubic meter of air

Exceedances of NYSDOH Soil Vapor Intrusion Air Guidance Values are italicized.
 Exceedances of NYSDOH Matrices are highlighted in gray.

Sample ID Date Sampled	NYSDOH AGV (Matrices)	SV-1 20160111 1/11/2016
VOCs	µg/m ³	µg/m ³
Tetrachloroethylene (PCE)	30 (100)	63.3

← Sample ID
 ← Sample Date
 ← Concentration in Soil Vapor

Aerial Source:
 2014 New York Statewide Digital Orthoimagery.



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Jamaica 94th Avenue
 147-20 94th Avenue
 Jamaica, New York

SOIL VAPOR SAMPLE CONCENTRATIONS ABOVE
 NYSDOH AGVs or MATRICES

DATE
6/24/2016

PROJECT NO.
12292

FIGURE
6

APPENDIX A
GEOPHYSICAL INVESTIGATION REPORT

GEOPHYSICAL INVESTIGATION REPORT

PERFORMED AT:

**94-02 148th St
Jamaica, NY 11435**

PREPARED FOR:

**Stephen Malinowski
AKRF
3900 Veterans Memorial Highway, Suite 331
Bohemia, NY 11716**

PREPARED BY:

**Shan Wei
Senior Geophysicist
Enviroprobe Service, Inc.
908 N Lenola Road
Moorestown, NJ 08057
Phone: (856) 858-8584
Toll Free: (800) 596-7472**

January 11, 2016

1.0 INTRODUCTION

Enviroprobe Service, Inc. (Enviroprobe) is an environmental investigation services firm which provides monitoring well installation (HSA), Geoprobe (DPT) drilling services and Environmental & Engineering Geophysics (EEG) services to the environmental consulting and engineering community.

Enviroprobe conducted a subsurface geophysical investigation at the subject property within client-specified areas of concern. Due to conditions and objectives, the investigation utilized a Geophysical Survey Systems, Inc (GSSI) SIR-3000 cart-mounted ground penetrating radar (GPR) unit with a 270 MHz antenna, a Radiodetection receiver, a Radiodetection transmitter and a Fisher TW-6 metallic locator.

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 2,000 MHz) to acquire subsurface information. An EM wave is propagated downward into the ground by a transmitting antenna. Where abrupt changes in electrical properties occur in the subsurface, a portion of the energy is reflected back to the surface. This reflected wave is detected by a receiver antenna and transmitted to a control unit for real time processing and display. The penetration depth of the GPR unit varies from several inches to tens of feet according to site-specific conditions. The penetration depth decreases with increased soil conductivity. The penetration depth is the greatest in ice, dry sands, and fine gravels. Clayey, highly saline or saturated soils, areas covered by concrete, foundry slag, or other highly conductive materials greatly reduce GPR penetration. GPR is a method commonly used for environmental, engineering, archaeological, and other shallow investigations.

The Radiodetection (RD) transmitter and receiver are commonly used for pipe and cable locating. The multi-frequency transmitter can be directly connected, clamped, or used to induce a signal in a target line while the multi-frequency receiver is used to measure the signal from energized lines.

The Fisher TW-6 metallic locator is designed to find pipes, cables and other metallic objects such as underground storage tanks (USTs). The TW-6 transmitter generates an electromagnetic field that induces electrical currents in the subsurface. These currents produce a secondary electromagnetic field that is measured by the TW-6 receiver. One surveyor can carry both the transmitter and receiver together to search for underground metallic objects, although the TW-6 response can also be affected by the electrical properties of non-metallic materials in the subsurface.

2.0 SCOPE OF WORK

On January 6, 2016, a geophysicist from Enviroprobe Service Inc. was mobilized to the subject property to perform a geophysical investigation. The purpose of the investigation was to detect possible USTs, designate underground conduits/utilities, and

investigate proposed drilling locations within client-specified areas of the property. The survey area included some exterior and interior portions of the subject property. The ground surface of the survey area consisted mainly of concrete surfaces.

3.0 SURVEY RESULTS

Around proposed drilling locations, the utility survey was conducted using a cart-mounted GPR unit and a RD unit. The RD unit was used to trace common utilities from sources in and around the survey area. The RD receiver was also used in the passive mode to search for live underground electrical power cables and other utilities emitting 60Hz electromagnetic signals. When possible, the location of utilities was confirmed with the GPR. The GPR survey was also performed in a grid pattern in at least two orthogonal directions to search for evident and non-evident underground utilities. Whenever possible and necessary, the manhole covers in and around the survey area were opened and the manholes were visually inspected for underground utilities. Designated utilities were marked on-site with spray paint using the following colors: green – storm drain and sanitary sewer, and pink – remote fill, vent, product and unknown utility.

Due to reinforced concrete, the TW-6 survey was not effective for detecting potential unknown USTs. The GPR survey was conducted in all accessible open areas and two suspected USTs were detected (Figure 1 and 2).

4.0 LIMITATIONS

In the survey areas, there were obstructions including vehicles, machines, fences, and racks, etc. These objects prevented a thorough investigation of the spaces beneath and immediately adjacent to them.

Due to surface conditions and subsurface content, the GPR penetration depth was estimated as about 3 feet or less in the majority of the survey area.

The TW-6 survey was not effective in areas with reinforced concrete.

Due to the dielectric properties of the subsurface, plastic polymer and fiberglass utilities may not have been detected.

The underground utility survey was conducted in compliance with the industry standard of care guidelines found in ASCE 38-02 (Level B).

5.0 WARRANTIES

The field observations and measurements reported herein are considered sufficient in detail and scope for this project. Enviroprobe Service, Inc. warrants that the findings

and conclusions contained herein have been promulgated in accordance with generally accepted environmental engineering methods. There is a possibility that conditions may exist which could not be identified within the scope of this project and were not apparent during the site activities performed for this project.

Enviroprobe represents that the services were performed in a manner consistent with that level of care and skill ordinarily exercised by environmental 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.

Enviroprobe Service, Inc. believes that the information provided in this report is reliable. However, Enviroprobe cannot warrant or guarantee that the information provided by others is complete or accurate. No other warranties or guarantees are implied or expressed.

GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling around underground structures and utilities since GPR data can only be used for estimation purposes and GPR data is subject to misinterpretation. Enviroprobe can not guarantee that utilities, post-tension cables, and/or rebar will not be incurred during drilling, cutting, coring, or excavating activities.


This report was prepared pursuant to the contract Enviroprobe has with the Client. That contractual relationship included an exchange of information about the property that was unique and between Enviroprobe and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between Enviroprobe 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 Enviroprobe.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third party beneficiary to Enviroprobe contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

FIG. 1. The suspected UST inside the building by the sliding gate on 148th Street. It's marked on-site with pink spray paint as a rectangular box with size of about 12 ft by 5.5 ft. The fill port was visible on the ground surface. It also had a remote fill port on the sidewalk. Its end toward the sliding gate was not able to be determined due to obstructions (a one-step stair and the wall). It's not found extending outside the wall.


FIG. 2. The suspected UST by the entrance on 94th Ave. It's marked on-site with pink spray paint as a rectangular box with size of about 9 ft by 5 ft.

APPENDIX B
SOIL BORING LOGS, WELL CONSTRUCTION LOGS, GROUNDWATER SAMPLING LOGS, AND SOIL
VAPOR SAMPLING LOGS

WELL CONSTRUCTION AND BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number : 12292		Boring No./Well ID: SB-1/MW-1 Sheet 1 of 1						
 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942		Drilling Rig/Method: Geoprobe 6610DT/DPP Sampling Method: 5' Macrocore Driller: Eastern Environmental Weather: 35 °F, Overcast Logged by: S. Grens		Drilling Start Time: 10:14 Finish Time: 10:20 Date: 1/6/16 Date: 1/7/16						
				Well Development Start Time: 14:15		Well Development Finish Time: 14:33				
Depth (feet)	Well Construction	Surface Condition: Concrete (3")	Soil Description	Recovery (Inches)	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis	
1		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade.	Top 6": CONCRETE (FILL).		ND	Dry	ND	ND		
2			Middle 15": Dark brown SAND, little Silt, fine Gravel (FILL).	32	ND	Dry	ND	ND	SB-1 (0-2) 20160107	
3		Sand pack filter from 0.5' to 11'	Bottom 11": Brown SAND, little fine Gravel (FILL).		ND	Dry	ND	ND		
4										
5										
6		2" PVC well riser from 0 to 15'	Top 3": SLOUGH.		ND	Dry	ND	ND	SB-1 (6-8) 20160107	
7			Bottom 38": Brown SAND, some fine Gravel, little Silt (TILL).	41	ND	Dry	ND	ND		
8										
9										
10										
11										
12		Bentonite seal 11' to 13'								
13										
14		Sand pack filter 13' to 30'								
15										
16										
17										
18										
19										
20										
21		2" 20-slot PVC well screen 15' to 30'								
22										
23										
24										
25										
26										
27										
28										
29										
30		Bottom of well: 30' below grade								
Notes: Water level measured in well. Augers advanced to 30 feet below grade to install MW-1. No soil samples collected from 10 to 30 feet below grade. Groundwater encountered at 19.76' below grade during well development on 1/11/16. Approximately 7.5 gallons purged during well development. Soil sample SB-1 (0-2) 20160107 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil sample SB-1 (6-8) 20160107 was analyzed for PAHs and TAL metals. PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid										


WELL CONSTRUCTION AND BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number : 12292		Boring No./Well ID: SB-3/MW-3							
AKRF 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942		Drilling Rig/Method: 6610DT/DPP Sampling Method: 5' Macrocore Driller: Eastern Environmental Weather: 35 °F, Overcast Logged by: S. Grens		Sheet 1 of 1							
				Drilling							
				Start Time:	Finish Time:						
				10:30	14:30						
				Date:	Date:						
				1/6/16	1/6/16						
				Well Development Start Time:	Well Development Finish Time:						
				10:05	10:20						
Depth (feet)	Well Construction	Surface Condition: Concrete (3")	Soil Description	Recovery (Inches)	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis		
1		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade. Sand pack filter from 0.5' to 11' 2" PVC well riser from 0 to 15' Bentonite seal 11' to 13' Sand pack filter 13' to 35' 2" 20-slot PVC well screen 15' to 35'	Top 3": CONCRETE (FILL).	50	ND	Dry	ND	ND	SB-3 (0-2) 20160106		
2			Middle 16": Brown SAND, SILT, and GRAVEL.		ND	Dry	ND	ND			
3			Bottom 31": Dark brown SILTY SAND, trace Brick, Coal (FILL).		ND	Dry	ND	ND			
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
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22											
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24											
25											
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
		Bottom of well: 35' below grade									

Notes:
 Water level measured in well.
 Augers advanced to 35 feet below grade to install MW-3. No soil samples collected from 25 to 35 feet below grade.
 Groundwater encountered at 20.98' below grade during well development on 1/11/16.
 Approximately 8 gallons purged during well development.
 Soil sample SB-3 (0-2) 20160106 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
 Soil sample SB-3 (6-8) 20160106 was analyzed for PAHs and TAL metals.
 PID = photoionization detector ND = Not Detected NAPL = non aqueous phase liquid

SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. SB-4 Sheet 1 of 1				
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Rig/Method: Geoprobe 6610DT/DPP Sampling Method: 5' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time: 10:47 Date: 1/7/16 Weather: Overcast, 35°F	Finish Time: 11:10 Date: 1/7/16			
Depth (feet)	Recovery (Inches)	Surface Condition:	CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	44	Top 3": CONCRETE (FILL).		ND	Dry	ND	ND	SB-4 (0-2) 20160107
2		Middle 24": Brown SAND, trace Brick, fine Gravel (FILL).		ND	Dry	ND	ND	
3		Bottom 17": Brown fine SAND, little Silt, fine Gravel (FILL).		ND	Dry	ND	ND	
4								
5								
6	42	Top 2": SLOUGH.		ND	Dry	ND	ND	SB-4 (5-7) 20160107
7		Middle 8": Brown SAND, trace Brick, fine Gravel.		ND	Dry	ND	ND	
8		Bottom 32": Brown SAND, trace Quartz, fine Gravel.		ND	Dry	ND	ND	
9								
10								
11	50	Brown SAND, little fine Gravel, trace Quartz.		ND	Dry	ND	ND	SB-4 (12-14) 20160107
12								
13								
14								
15								
16								
17								
18								
19								
20								


Notes:


End of boring at 15 feet below ground surface.
 Groundwater was not encountered.
 Soil samples SB-4 (0-2) 20160107 and SB-4 (12-14) 20160107 were analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil sample SB-4 (5-7) 20160107 was analyzed for PAHs and TAL metals.
 PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid


SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. SB-5 Sheet 1 of 1				
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Geoprobe 6610DT/DPP Sampling Method: 5' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time:	9:15	Finish Time:	9:30	
				Date:	1/7/16	Date:	1/7/16	
				Weather:	Overcast, 35°F			
Depth (feet)	Recovery (Inches)	Surface Condition:	CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	31	Top 2": CONCRETE (FILL).		ND	Dry	ND	ND	SB-5 (0-2) 20160107
2		Bottom 29": Brown SAND, little Silt, fine Gravel (FILL).		ND	Dry	ND	ND	
3								
4								
5								
6	32	Top 4": SLOUGH		ND	Dry	ND	ND	SB-5 (5-7) 20160107
7		Bottom 28": Brown SAND, little fine Gravel (TILL).		ND	Dry	ND	ND	
8								
9								
10								
11	20	Top 3": SLOUGH		ND	Dry	ND	ND	SB-5 (12-14) 20160107
12		Bottom 17": Brown SAND, little fine Gravel (TILL).		ND	Dry	ND	ND	
13								
14								
15								
16								
17								
18								
19								
20								


Notes:


End of boring at 15 feet below ground surface.
 Groundwater was not encountered.
 Soil samples SB-5 (0-2) 20160107 and SB-5 (12-14) 20160107 were analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil sample SB-5 (5-7) 20160107 was analyzed for PAHs and TAL metals.
 PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid


SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. Sheet 1 of 1		SB-6		
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Geoprobe 6610DT/DPP Sampling Method: 5' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time: 9:00 Date: 1/6/16	Finish Time: 9:30 Date: 1/6/16			
				Weather: Overcast, 35°F				
Depth (feet)	Recovery (Inches)	Surface Condition:	CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	43	Top 3": CONCRETE (FILL).		ND	Dry	ND	ND	SB-6 (0-2) 20160106
2		Middle 2": ASPHALT, trace Coal, Ash (FILL).		ND	Dry	ND	ND	
3		Bottom 38": Brown SAND and SILT, trace fine Gravel (FILL).		ND	Dry	ND	ND	
4								
5								
6	42	Top 6": Brown SAND and SILT, trace fine Gravel (FILL).		ND	Dry	ND	ND	SB-6 (5-7) 20160106
7		Bottom 36": Light brown SAND, trace Silt, fine Gravel (TILL).		ND	Dry	ND	ND	
8								
9								
10								
11	60	Light brown SAND, trace Silt, fine Gravel (TILL).		ND	Dry	ND	ND	SB-6 (12-14) 20160106
12								
13								
14								
15								
16								
17								
18								
19								
20								
Notes: End of boring at 15 feet below ground surface. Groundwater was not encountered. Soil samples SB-6 (0-2) 20160106 and SB-6 (12-14) 20160106 were analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil samples SB-6 (5-7) 20160106 was analyzed for PAHs and TAL metals. PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid								

SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. SB-7 Sheet 1 of 1				
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Slide Hammer Sampling Method: 3' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time: 9:00 Date: 1/7/16 Weather: Clear, 45°F	Finish Time: 9:30 Date: 1/7/16			
		Surface Condition: CONCRETE (3")		Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
		Depth (feet) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Recovery (Inches) 20	Brown fine SAND and SILT, trace fine Gravel (TILL).	ND	Dry	ND	ND
Notes: End of boring at 2 feet below ground surface. Groundwater was not encountered. Soil sample SB-7 (0-2) 20160107 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid								


SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. SB-8 Sheet 1 of 1				
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Slide Hammer Sampling Method: 3' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time:	9:00	Finish Time:	9:30	
				Date:	1/7/16	Date:	1/7/16	
				Weather:	Clear, 45°F			
Depth (feet)	Recovery (Inches)	Surface Condition:	CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1 2	20	Brown fine SAND and SILT, trace fine Gravel (TILL).		ND	Dry	1.1 ppm 0.6 ppm	ND	SB-8 (0-2) 20160107
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Notes: End of boring at 2 feet below ground surface. Groundwater was not encountered. Soil sample SB-8 (0-2) 20160107 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. PID = photoionization detector PPM = parts per million ND = Not Detected NAPL = non-aqueous phase liquid								

SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. Sheet 1 of 1		SB-9		
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Geoprobe 6610DT/DPP Sampling Method: 5' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time:	10:32	Finish Time:	11:00	
				Date:	1/7/16	Date:	1/7/16	
				Weather:	Clear, 35F			
Depth (feet)	Recovery (Inches)	Surface Condition:	CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	41	Top 3": CONCRETE (FILL). Bottom 38": Brown SAND and SILT, trace fine Gravel (FILL).		ND	Dry	ND	ND	SB-9 (0-2) 20160107
2				ND	Dry	ND	ND	
3				ND	Dry	ND	ND	
4								
5								
6	44	Top 6": Brown SAND and SILT, trace fine Gravel (FILL). Bottom 38": Dark brown SAND, little Silt, little Gravel, trace Mica, Quartz.		ND	Dry	ND	ND	SB-9 (6-8) 20160107
7				ND	Dry	ND	ND	
8				ND	Dry	ND	ND	
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
Notes: End of boring at 10 feet below ground surface. Groundwater was not encountered. Soil samples SB-9 (0-2) 20160107 were analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil sample SB-9 (6-8) was 20160107 analyzed for PAHs and TAL metals. PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid								

SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. SB-10 Sheet 1 of 1				
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Geoprobe 6610DT/DPP Sampling Method: 4' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time:	8:40	Finish Time:	9:10	
				Date:	1/11/16	Date:	1/11/16	
				Weather: Overcast, 35°F				
Depth (feet)	Recovery (inches)	Surface Condition:	Concrete (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	21	Top 3": CONCRETE (FILL).		ND	Dry	ND	ND	SB-10 (0-2) 20160111
2		Bottom 18": ASH and COAL and BRICK, some brown fine Sand, Silt, trace fine Gravel (Fill).		ND	Dry	ND	ND	
3		Top 6": ASH and COAL and BRICK, some brown Sand, Silt, trace fine Gravel (FILL).		ND	Dry	ND	ND	
4		Middle 6": Brown SAND and SILT, trace fine Gravel (FILL).		ND	Dry	ND	ND	
5	35	Bottom 23": Brown SAND and SILT, little fine Gravel (FILL).		ND	Dry	ND	ND	SB-10 (5-7) 20160111
6		Top 18": Brown SAND, SILT, and GRAVEL.		ND	Dry	ND	ND	
7		Middle 1": Fine GRAVEL (TILL).		ND	Dry	ND	ND	
8		Bottom 6": Light brown SAND, trace fine Gravel, Silt.		ND	Dry	ND	ND	
9	25	Brown SAND, some Silt, little fine Gravel (TILL).		ND	Dry	ND	ND	SB-10 (12-14) 20160111
10				ND	Dry	ND	ND	
11				ND	Dry	ND	ND	
12				ND	Dry	ND	ND	
13	40			ND	Dry	ND	ND	SB-10 (12-14) 20160111
14				ND	Dry	ND	ND	
15								
16								
17								
18								
19								
20								
Notes:								
End of boring at 16 feet below ground surface.								
Groundwater was not encountered.								
Soil samples SB-10 (0-2) 20160111 and SB-10 (12-14) 20160111 were analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil sample SB-10 (5-7) 20160111 was analyzed for PAHs and TAL metals.								
PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid								

SOIL BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number: 12292		Boring No. SB-11 Sheet 1 of 1				
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Geoprobe 6610DT/DPP Sampling Method: 5' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling				
				Start Time:	7:30	Finish Time:	8:00	
				Date:	1/7/16	Date:	1/7/16	
				Weather:	Clear, 35°F			
Depth (feet)	Recovery (Inches)	Surface Condition:	CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1	38	Top 5": CONCRETE (FILL).		ND	Dry	ND	ND	SB-11 (0-2) 20160107
2		Next 12": Brown SAND, some SILT, trace fine Gravel.		ND	Dry	ND	ND	
3		Bottom 11": Light brown SAND, some Silt, little fine Gravel.		ND	Dry	ND	ND	
4								
5								
6	38	Top 6": SLOUGH.		ND	Dry	ND	ND	SB-11 (6-8) 20160107
7		Bottom 32": Brown SAND, trace fine Gravel.		ND	Dry	ND	ND	
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Notes:
 End of boring at 10 feet below ground surface.
 Groundwater was not encountered.
 Soil sample SB-11 (0-2) 20160107 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.
 Soil sample SB-11 (6-8) 20160107 was analyzed for PAHs and TAL metals.
 PID = photoionization detector ND = Not Detected NAPL = non-aqueous phase liquid

SOIL BORING LOG		147-20 94 th Avenue Jamaica, NY AKRF Project Number: 12292		Boring No. SB-12 Sheet 1 of 1															
 440 Park Avenue South, New York, NY Phone (212) 696-0670 Fax (212) 726-0942		Drilling Method: Geoprobe 6610DT/DPP Sampling Method: 4' Macrocore Driller : Eastern Environmental Sampler: S. Grens		Drilling <table border="1"> <tr> <td>Start Time:</td> <td>9:15</td> <td>Finish Time:</td> <td>9:45</td> </tr> <tr> <td>Date:</td> <td>1/11/16</td> <td>Date:</td> <td>1/11/16</td> </tr> <tr> <td colspan="4">Weather: Overcast, 35°F</td> </tr> </table>				Start Time:	9:15	Finish Time:	9:45	Date:	1/11/16	Date:	1/11/16	Weather: Overcast, 35°F			
		Start Time:	9:15	Finish Time:	9:45														
		Date:	1/11/16	Date:	1/11/16														
		Weather: Overcast, 35°F																	
Depth (feet)	Recovery (Inches)	Surface Condition: CONCRETE (3")	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis												
1	18	Top 3": CONCRETE (FILL).	ND	Dry	ND	ND	SB-12 (0-2) 20160111												
2		Middle 1": Blue FOAM INSULATION (FILL).	ND	Dry	ND	ND													
3		Bottom 14": ASH, COAL, and BRICK, some brown Sand, and Silt, trace fine Gravel (FILL).	ND	Dry	ND	ND													
4																			
5	41	ASH, COAL, and BRICK, some brown Sand, Silt, trace fine Gravel (FILL).	ND	Dry	ND	ND	SB-12 (6-8) 20160111												
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			

Notes:

End of boring at 8 feet below ground surface.

Groundwater was not encountered.

Soil sample SB-12 (0-2) 20160111 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals.

Soil sample SB-12 (6-8) 20160111 was analyzed for PAHs and TAL metals.

PID = photoionization detector

ND = Not Detected

NAPL = non-aqueous phase liquid

WELL CONSTRUCTION AND BORING LOG		147-20 94 th Avenue Jamaica, New York AKRF Project Number : 12292		Boring No./Well ID: SB-13/MW-4					
AKRF 440 Park Avenue South, New York, NY 10016 Phone (212) 696-0670 Fax (212) 726-0942		Drilling Rig/Method: 6610DT/DPP Sampling Method: 5' Macrocore Driller: Eastern Environmental Weather: 35 °F, Overcast Logged by: S. Grens		Sheet 1 of 1 Drilling Start Time: 10:03 Finish Time: 15:00 Date: 1/7/16 Date: 1/7/16 Well Development Start Time: 8:05 Well Development Finish Time: 8:15					
Depth (feet)	Well Construction	Surface Condition: Concrete (3")	Soil Description	Recovery (Inches)	Odor	Moisture	PID	NAPL	Samples Collected for Lab Analysis
1		Flush-mounted well cover, locking cap and concrete seal 0 to 0.5' below grade.	Top 3": CONCRETE (FILL).		ND	Dry	ND	ND	
2			Middle 7": Light brown SAND, some fine Gravel.	32	ND	Dry	ND	ND	SB-13 (0-2) 20160107
3		Sand pack filter from 0.5' to 16'	Bottom 22": Dark brown fine SAND, trace fine Gravel (FILL).		ND	Dry	ND	ND	
4									
5									
6		2" PVC well riser from 0 to 20'	Top 3": SLOUGH.		ND	Dry	ND	ND	SB-13 (6-8) 20160107
7			Middle 16": Brown SAND, trace fine Gravel (TILL).	34	ND	Dry	ND	ND	
8			Bottom 15": Brown SAND, some Silt, trace fine Gravel, Clay (TILL).		ND	Dry	ND	ND	
9									
10									
11									
12									
13									
14									
15									
16									
17		Bentonite seal 16' to 18'							
18									
19		Sand pack filter 18' to 35'							
20									
21									
22									
23		2" 20-slot PVC well screen 20' to 35'							
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									
34									
35		Bottom of well: 35' below grade							

Notes:
 ▲ Water level measured in well.
 Augers advanced to 35 feet below grade to install MW-4. No soil samples collected from 10 to 35 feet below grade.
 Groundwater encountered at 19.72' below grade during well development on 1/11/16.
 Approximately 11 gallons purged during well development.
 Soil samples SB-13 (0-2) 20160107 was analyzed for VOCs, SVOCs, PCBs, Pesticides, and TAL metals. Soil sample SB-13(6-8) was analyzed for PAHs and TAL metals.
 PID = photoionization detector ND = Not Detected NAPL = non aqueous phase liquid



Well Sampling Log

PG 1. of 2.

Job No: 12292	Client: 94 th Avenue Jamaica LLC	Well No: MW-1
Project Location: 147-20 94 th Ave, Jamaica, NY	Sampled By: A. Bosco/ H. Hawkins	
Date: 1/19/2016	Sampling Time: 1655	
PID at surface: ND		

Total Depth: 29.79 ft. below top of casing	Water Column (WC): 10.05 feet	*= 0.163 * WC for 2" wells
Depth to Water: 19.76 ft. below top of casing	Well Volume*: 4.90 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: 2.5 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: 14.79 ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 29.79 ft. below top of casing	Pump type: QED	
Approx. Pump Intake: ~25 ft. below top of casing	Field Screening Instrument: Horiba U-52	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity* (NTU)	Comments (problems, odor, sheen)
1450	19.79	100	13.68	0.368	4.05	5.82	317	too high	No sheen, odor, or
1455	19.79	100	13.71	0.378	3.96	5.90	314	too high	product noted on purged
1510	19.79	100	13.50	0.379	3.79	6.01	314	too high	water
1515	19.79	100	13.80	0.376	3.77	5.96	315	too high	
1520	19.78	100	13.84	0.376	3.75	5.94	315	1000	
1525	19.78	100	14.01	0.375	3.70	5.91	314	918	
1530	19.78	100	14.21	0.375	3.59	5.90	313	565	
1535	19.76	100	14.30	0.374	3.52	5.90	314	432	
1540	19.76	100	14.34	0.376	3.39	5.80	314	264	
1545	19.76	100	14.29	0.378	3.27	5.87	315	200	
1550	19.75	100	14.33	0.381	3.18	5.86	315	160	
1600	19.75	100	14.33	0.382	3.15	5.56	315	155	
1605	19.75	100	14.32	0.382	3.13	5.86	315	156	

Stabilization Criteria:	+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
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Groundwater samples analyzed for: VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081), and TAL Metals (total and dissolved).



Well Sampling Log

PG 2. of 2.

Job No: 12292	Client: 94 th Avenue Jamaica LLC	Well No: MW-1
Project Location: 147-20 94 th Ave, Jamaica, NY	Sampled By: A. Bosco/ H. Hawkins	
Date: 1/19/2016	Sampling Time: 1655	
PID at surface: ND		

Total Depth: 29.79 ft. below top of casing	Water Column (WC): 10.05 feet	*= 0.163 * WC for 2" wells
Depth to Water: 19.76 ft. below top of casing	Well Volume*: 4.90 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: 2.5 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: 14.79 ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 29.79 ft. below top of casing	Pump type: QED	
Approx. Pump Intake: ~25 ft. below top of casing	Field Screening Instrument: Horiba U-52	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity* (NTU)	Comments (problems, odor, sheen)
1610	19.75	100	14.36	0.381	3.09	5.85	315	133	No sheen, odor, or product noted on purged water
1615	19.75	100	14.40	0.380	3.00	5.84	315	174	
1620	19.75	100	14.39	0.380	3.01	5.84	316	160	
1625	19.75	100	14.39	0.382	2.96	5.84	316	140	
1630	19.75	100	14.37	0.383	2.92	5.83	316	135	
1635	19.75	100	14.36	0.387	2.83	5.83	316	115	
1640	19.75	100	14.40	0.386	2.81	5.84	316	105	
1645	19.74	100	14.40	0.386	2.77	5.83	316	94.4	
1650	19.74	100	14.38	0.388	2.72	5.82	316	82.4	
SAMPLE									
1740	19.75	100	13.50	0.387	5.41	5.84	317	75	

Stabilization Criteria:	+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
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Groundwater samples analyzed for: VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081), and TAL Metals (total and dissolved).



Well Sampling Log

PG 1. of 1.

Job No: 12292	Client: 94 th Avenue Jamaica LLC	Well No: MW-2
Project Location: 147-20 94 th Ave, Jamaica, NY	Sampled By: A. Bosco/ H. Hawkins	
Date: 1/19/2016	Sampling Time: 1330	
PID at surface: ND		

Total Depth: 30.21 ft. below top of casing	Water Column (WC): 10.43 feet	*= 0.163 * WC for 2" wells
Depth to Water: 19.78 ft. below top of casing	Well Volume*: 5.10 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: 3 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: 15.21 ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 30.21 ft. below top of casing	Pump type: QED	
Approx. Pump Intake: ~25 ft. below top of casing	Field Screening Instrument: Horiba U-52	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity* (NTU)	Comments (problems, odor, sheen)
1235	19.79	100	11.62	0.502	11.64	5.79	300	543	No sheen, odor, or
1240	19.79	100	13.34	0.481	3.53	5.55	301	900	product noted on purged
1245	19.79	100	13.62	0.480	3.43	5.56	302	779	water
1250	19.79	100	13.67	0.480	3.42	5.50	302	714	
1255	19.79	100	13.73	0.481	3.37	5.55	303	586	
1300	19.79	100	13.83	0.482	3.32	5.56	304	462	
1305	19.79	100	13.94	0.481	3.28	5.56	305	331	
1310	19.79	100	14.00	0.482	3.20	5.56	307	152	
1305	19.79	100	13.98	0.482	3.26	5.57	306	76.2	
1320	19.79	100	13.94	0.487	3.25	5.57	307	46.4	
1325	19.79	100	14.04	0.490	3.26	5.57	306	35.3	
1330	19.79	100	14.02	0.491	3.25	5.57	308	25.2	
1415	19.78	100	14.50	0.480	4.42	5.54	317	49.5	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081), and TAL Metals (total and dissolved). MW-2A(blind Duplicate) collected at MW-2 at 1330.



Well Sampling Log

PG 1. of 1.

Job No: 12292	Client: 94 th Avenue Jamaica LLC	Well No: MW-3
Project Location: 147-20 94 th Ave, Jamaica, NY	Sampled By: A. Bosco/ H. Hawkins	
Date: 1/19/2016	Sampling Time: 0950	
PID at surface: ND		

Total Depth: 30.06 ft. below top of casing	Water Column (WC): 9.15 feet	*= 0.163 * WC for 2" wells
Depth to Water: 20.91 ft. below top of casing	Well Volume*: 4.40 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: 2.5 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: 15.06 ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 30.06 ft. below top of casing	Pump type: QED	
Approx. Pump Intake: ~26 ft. below top of casing	Field Screening Instrument: Horiba U-52	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity* (NTU)	Comments (problems, odor, sheen)
900	19.89	100	5.57	0.568	8.77	4.89	253	620	No sheen, odor, or
905	20.82	100	10.11	0.486	4.42	5.64	230	330	product noted on purged
910	20.82	100	10.64	0.478	4.19	5.69	230	25	water
915	20.82	100	10.78	0.408	4.15	5.69	237	200	
920	20.82	100	11.27	0.476	4.04	5.71	242	125	
925	20.85	100	11.28	0.476	3.95	5.72	249	84	
930	20.85	100	11.57	0.475	3.90	5.74	254	49.3	
935	20.85	100	11.64	0.475	3.84	5.74	259	30.1	
940	20.85	100	11.70	0.477	3.76	5.74	264	21.3	
SAMPLE									
1200	20.88	100	13.93	0.501	3.08	5.68	304	12	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081), and TAL Metals (total and dissolved). MS/MSD Collected at MW-3



Well Sampling Log

PG 1. of 2.

Job No: 12292	Client: 94 th Avenue Jamaica LLC	Well No: MW-4
Project Location: 147-20 94 th Ave, Jamaica, NY	Sampled By: A. Bosco/ H. Hawkins	
Date: 1/19/2016	Sampling Time: 1955	
PID at surface: ND		

Total Depth: 34.51 ft. below top of casing	Water Column (WC): 14.85 feet	*= 0.163 * WC for 2" wells
Depth to Water: 19.66 ft. below top of casing	Well Volume*: 7.26 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: 4 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: 19.51 ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 34.51 ft. below top of casing	Pump type: QED	
Approx. Pump Intake: ~26 ft. below top of casing	Field Screening Instrument: Horiba U-52	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity* (NTU)	Comments (problems, odor, sheen)
1755	19.66	100	12.83	0.808	3.47	6.95	249	798	No sheen, odor, or
1800	19.66	100	13.23	0.759	3.09	6.19	271	too high	product noted on purged
1805	19.66	100	13.28	0.743	2.86	5.98	275	too high	water
1810	19.68	100	12.09	0.746	2.81	6.10	281	854	
1815	19.68	100	12.30	0.744	2.76	6.05	283	1000	
1820	19.68	100	12.47	0.722	2.68	5.92	284	950	
1825	19.68	100	12.17	0.735	2.25	5.90	285	750	
1830	19.68	100	11.88	0.739	2.56	5.88	286	1000	
1835	19.68	100	11.55	0.700	2.55	5.88	292	too high	
1840	19.68	100	10.43	0.592	2.93	5.99	291	too high	
1845	19.68	100	10.94	0.571	2.67	5.85	299	too high	
1850	19.68	100	11.33	0.558	2.56	5.85	298	too high	
1855	19.68	100	11.89	0.541	2.47	5.77	298	too high	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081), and TAL Metals (total and dissolved).



Well Sampling Log

PG 2. of 2.

Job No: 12292	Client: 94 th Avenue Jamaica LLC	Well No: MW-4
Project Location: 147-20 94 th Ave, Jamaica, NY	Sampled By: A. Bosco/ H. Hawkins	
Date: 1/19/2016	Sampling Time: 1955	
PID at surface: ND		

Total Depth: 34.51 ft. below top of casing	Water Column (WC): 14.85 feet	*= 0.163 * WC for 2" wells
Depth to Water: 19.66 ft. below top of casing	Well Volume*: 7.26 gallons	*= 0.653 * WC for 4" wells
Depth to Product: ND ft. below top of casing	Volume Purged: 4 gallons	*= 1.469 * WC for 6" wells
Depth to top of screen: 19.51 ft. below top of casing	Well Diam.: 2 inches	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 34.51 ft. below top of casing	Pump type: QED	
Approx. Pump Intake: ~26 ft. below top of casing	Field Screening Instrument: Horiba U-52	

Time	Depth to Water (Ft.)	Purge Rate (ml/min)	Temp (°C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)	Turbidity* (NTU)	Comments (problems, odor, sheen)
1900	19.68	100	12.37	0.504	2.40	5.68	298	too high	No sheen, odor, or
1905	19.68	100	11.84	0.487	2.34	5.67	299	too high	product noted on purged
1910	19.68	100	11.29	0.475	2.28	5.65	300	too high	water
1915	19.68	100	11.05	0.478	2.27	5.64	301	980	
1920	19.69	100	11.06	0.477	2.26	5.63	302	810	
1925	19.69	100	11.01	0.476	2.24	5.63	302	745	
1930	19.69	100	11.07	0.475	2.23	5.62	303	732	
1935	19.69	100	11.12	0.475	2.23	5.62	303	730	
1940	19.69	100	11.13	0.476	2.22	5.62	303	726	
1945	19.69	100	11.14	0.477	2.22	5.62	303	720	
1950	19.69	100	11.12	0.478	2.21	5.62	303	718	
SAMPLE									
2015	19.67	100	11.02	0.479	2.23	5.63	302	813	
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.

Groundwater samples analyzed for: VOCs (8260), SVOCs (8270), PCBs (8082), Pesticides (8081), and TAL Metals (total and dissolved). Well did not stabilize within 2 hours.

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-1 20160111
Canister ID: 2117
Flow Controller ID: 0472

Purging

Time Started: 08:18
Time Stopped: 08:28
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 08:30 **Vacuum:** -28.7 inHg
Time Stopped: 10:30 **Vacuum:** -5.45 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.2 ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-2 20160111
Canister ID: 967
Flow Controller ID: 0154

Purging

Time Started: 09:27
Time Stopped: 09:37
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 09:40 **Vacuum:** -29.05 inHg
Time Stopped: 11:27 **Vacuum:** -3.62 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 1.0 ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-3 20160111
Canister ID: 1880
Flow Controller ID: 0718

Purging

Time Started: 08:50
Time Stopped: 09:00
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 09:40 **Vacuum:** -29.8 inHg
Time Stopped: 11:27 **Vacuum:** -2.88 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.6 ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-4 20160111
Canister ID: 984
Flow Controller ID: 0701

Purging

Time Started: 9:15
Time Stopped: 9:25
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 9:25 **Vacuum:** 30.34 inHg
Time Stopped: 10:58 **Vacuum:** -3.25 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.8 ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-5 20160111
Canister ID: 1666
Flow Controller ID: 0259

Purging

Time Started: 08:40
Time Stopped: 08:50
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 08:50 **Vacuum:** -29.45 inHg
Time Stopped: 10:44 **Vacuum:** -6.62 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.1ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-6 20160111
Canister ID: 1881
Flow Controller ID: 0173

Purging

Time Started: 08:01
Time Stopped: 08:11
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 08:11 **Vacuum:** -29.8 inHg
Time Stopped: 10:11 **Vacuum:** -4.81 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.1 ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens
Date: 1/11/16

Sample ID: SV-7 20160111
Canister ID: 972
Flow Controller ID: 0438

Purging

Time Started: 07:50
Time Stopped: 08:00
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 08:50 **Vacuum:** -29.68 inHg
Time Stopped: 10:14 **Vacuum:** -4.83 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.5 ppm
He Reading Not Detected

Job No: 12292 **Client:** 94th Avenue
Jamaica LLC
Project Location: 147-20 94th Ave. **Sampled By:** S. Grens

Date: 1/11/16

Sample ID: SV-8 20160111
Canister ID: 900
Flow Controller ID: 0927

Purging

Time Started: 09:02
Time Stopped: 09:12
Vol. Purged: 1.0 liters
Flow Rate: 0.1 L/min

Laboratory Sample (Summa Canister)

Time Started: 09:13 **Vacuum:** -30.47 inHg
Time Stopped: 11:11 **Vacuum:** -6.32 inHg

Field Sample

PID Calibration: 100.1 ppm
Time Started: 07:30
Time Stopped: 07:35
PID Reading: 0.5 ppm
He Reading Not Detected

APPENDIX C
LABORATORY DATA DELIVERABLES AND DUSRS FOR SOIL, GROUNDWATER, AND SOIL VAPOR
ANALYSES

**DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY**

ORGANIC/INORGANIC ANALYSES

**VOLATILES BY GC/MS
SEMIVOLATILES BY GC/MS
(and select samples for PAH only)
PESTICIDES BY GC
PCBs BY GC
TAL METALS BY ICP/CV**

**For Soil Samples Collected
January 06, 2016, January 07, 2016 and January 11, 2016
From 94-02 148th Street and 147-20 94th Avenue
Queens, New York
Collected by AKRF, Inc.
Project # 12292**

**SAMPLE DELIVERY GROUP NUMBERS:
L1600380 and L1600381
BY ALPHA ANALYTICAL - (ELAP #11148)**

SUBMITTED TO:

**Mr. Steve Grens
AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, NY 10016**

February 09, 2016

PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**

Lori A. Beyer

94-02 148th Street and 147-20 94th Avenue, Queens, New York – Data Usability Summary Report (Data Validation): January 2016 Sampling Events; Soil Analysis for Volatiles, Semivolatiles (and select samples for PAH only), Pesticides, PCBs and TAL Metals.

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APPENDICES:

- A. Chain of Custody Documents
- B. Case Narratives
- C. Data Summary Form Is with Qualifications
 - Part 1 – PAH and TAL Metals (SDG 1600380)
 - Part 2 – Volatiles (SDG 1600381)
 - Part 3 – Semivolatiles (SDG 1600381)
 - Part 4 – Pesticides/PCBs (SDG 1600381)
 - Part 5 – Metals (SDG 1600381)

Introduction:

A validation was performed on soil samples and the associated quality control samples (Field Blanks/Trip Blanks/Field Duplicates and MS/MSD) for organic/inorganic analysis for samples collected under chain of custody documentation by AKRF, Inc. and submitted to Alpha Analytical for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. Analysis was performed in accordance with requested tests per the chain of custody documents.

The samples were analyzed by Alpha, utilizing SW846 Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing for soil samples consisted of Volatile Organics, Semivolatile Organics (and select samples for PAH only), Pesticides, PCBs and Metals.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review and EPA Region II SOPs for 8260, 8270, 8081, 8082 and Metals and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

Sample ID	Lab ID	Matrix	Date Collected	Analysis
SB-6 (5-7) Plus MS/MSD	L1600380-01	Soil	1/6/16	PAH, TAL Metals
SB-3 (6-8)	L1600380-02	Soil	1/6/16	PAH, TAL Metals
SB-3A (6-8) [Dup of SB-3 (6-8)]	L1600380-03	Soil	1/6/16	PAH, TAL Metals
Field Blank – 2	L1600380-04	Liquid	1/6/16	PAH, TAL Metals
SB-11 (6-8)	L1600380-05	Soil	1/7/16	PAH, TAL Metals
SB-5 (5-7)	L1600380-06	Soil	1/7/16	PAH, TAL Metals
SB-13 (6-8)	L1600380-07	Soil	1/7/16	PAH, TAL Metals
SB-1 (6-8)	L1600380-08	Soil	1/7/16	PAH, TAL Metals
SB-9 (6-8)	L1600380-09	Soil	1/7/16	PAH, TAL Metals
SB-4 (5-7)	L1600380-10	Soil	1/7/16	PAH, TAL Metals
Sb-2 (6-8)	L1600380-11	Soil	1/11/16	PAH, TAL Metals
SB-10 (5-7)	L1600380-12	Soil	1/11/16	PAH, TAL Metals
SB-12 (6-8)	L1600380-13	Soil	1/11/16	PAH, TAL Metals
SB-6 (0-2) Plus MS/MSD	L1600381-01	Soil	1/6/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-6 (12-14)	L1600381-02	Soil	1/6/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-3 (0-2)	L1600381-03	Soil	1/6/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-3A (0-2) [Dup of SB-2A (0-2)]	L1600381-04	Soil	1/6/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
Field Blank – 1	L1600381-05	Liquid	1/6/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
Trip Blank – 1	L1600381-06	Liquid	1/4/16	VOA
SB-11 (0-2)	L1600381-07	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-5 (0-2)	L1600381-08	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-5 (12-14)	L1600381-09	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-7 (0-2)	L1600381-10	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-13 (0-2)	L1600381-11	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-8 (0-2)	L1600381-12	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-1 (0-2)	L1600381-13	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-9 (0-2)	L1600381-14	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-4 (0-2)	L1600381-15	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-4 (12-14)	L1600381-16	Soil	1/7/16	VOA, SVOA, Pesticides, PCBs, TAL Metals

Trip Blank – 2	L1600281-17	Liquid	1/7/16	VOA
SB-2 (0-2)	L1600381-18	Soil	1/11/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-10 (0-2)	L1600381-19	Soil	1/11/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-10 (12-14)	L1600381-20	Soil	1/11/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
SB-12 (0-2)	L1600381-21	Soil	1/11/16	VOA, SVOA, Pesticides, PCBs, TAL Metals
Trip Blank – 3	L1600381-22	Liquid	1/4/16	VOA

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R** - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- N** - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
- NJ** - The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate quantity.
- J+** - The result is an estimated quantity, but the result may be biased high.
- J-** - The result is an estimated quantity, but the result may be biased low.
- D** - Analyte concentration is from diluted analysis.

Sample Receipt:

The Chain of Custody documents indicates that the samples were received at Alpha Analytical via laboratory courier upon completion of each day's sampling. Sample login notes were generated. The cooler temperature for all sample receipts were recorded upon receipt at Alpha and determined to be acceptable (<6.0 degrees C) for all shipments. The actual temperature is recorded on the sample receipt checklists provided in Appendix A of this report.

No unresolved problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good. Any sample discrepancies and/or questions that were noted upon receipt by the laboratory were resolved as indicated in the narrative discussions of the lab reports. None of the discrepant items resulted in any qualified data. Soil samples for Volatile analysis were collected by Method 5035A in Encore devices. All analyses were conducted via low level procedures.

The data summary Form I's included in Appendix C includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by GC/MS SW846 Method 8260C

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects in Field Blanks and Trip Blanks for Acetone, 2-Butanone and 1,4-Dioxane due to low ICAL/CCAL as well as all soil non-detects for 1,4-Dioxane due to low response factors as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be

flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to these SDGs were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. Soil samples were collected in encores (3/location) in accordance with SW846 Method 5035A. It is assumed that samples were prepared for analysis within 48 hours of collection, however, no documentation is provided in the lab report for volatile preparation (freezing and/or put into solution). No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) for Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8 and 4-Bromofluorobenzene were found to be within acceptable limits for surrogate compounds for all analyses pertaining to these SDGs.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence as batch QC and were spiked with all components as required by the analytical procedure.

SB-6 (0-2) was selected by AKRF field personnel for MS/MSD analysis. Chloroethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2,3-Trichloropropane, 1,2-Dibromoethane, Bromobenzene, Styrene, 2-Butanone, Vinyl Acetate, 2-Hexanone, 4-Methyl-2-pentanone, 2-Chlorotoluene, 4-Chlorotoluene, Naphthalene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4,5-

Tetramethylbenzene, trans-1,4-Dichloro2-butene, 1,1,2-Trichloroethane, Chlorobenzene, 1,2-Dichloroethane, trans-1,3-Dichloropropene, Bromoform, 1,1,2,2-Tetrachloroethane, Toluene, n-Butylbenzene, , 1,2-Dibromo-3-chloropropane, Hexachlorobutadiene, n-Propylbenzene, Chloroethane, m+p Xylene and o-Xylene recovered low in the MS and/or MSD. Parent sample results have been qualified, “UJ” for these compounds. Several RPD also fell outside acceptance limits. Sample chromatogram does not demonstrate any visible interferences. It is recommended that the laboratory report in house calculated/ established ranges for acceptance in lieu of 70-140% for MS/MSD. High recovery was obtained for Dichlorodifluoromethane (154%) and Dichlorodifluoromethane (159%). No qualifications were applied based on these outliers.

The National Functional Guidelines and EPA Region 2 SOPs state that “No qualifications to the data is necessary based on MS data alone.”

No qualifications to the data were required based on professional judgment for batch (non-site specific) MS/MSD analysis.

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes or LCS/LCS Duplicates were analyzed for each sequence. Recovery values were acceptable for all spiked analytes with exceptions noted below:

LCS/LCS Duplicate applicable to Field Blank -1 and Trip Blank – 1 resulted in high (168%) Acrolein. No impact to reported results since this compounds was not detected in field samples. 2-Chloroethylvinyl ether (68%) and Chloromethane (52%) recovered low in the LCS Duplicate. Non-detects in Field Blank-1 and Trip Blank – 1 must be considered estimated, “UJ” for Chloromethane. 2-Chloroethylvinyl ether was not reported by the laboratory for field samples and therefore is not considered an analyte of interest. Several RPD fell outside acceptance limits of 20%. No qualifications to the data were made based on these outliers.

LCS/LCS Duplicate applicable to Trip Blank – 2 resulted in trans-1,2-Dichloroethene (23%), Carbon Disulfide (21%), n-Butylbenzene (21%),

sec-Butylbenzene (22%) and p-Isopropyltoluene (21%) RPD outside 20% limit. Based on professional judgment, no qualifications to the data were made. Vinyl Acetate (67%) recovered low in the LCS Duplicate. Non-detects in Trip Blank – 2 have been qualified, “UJ.”

LCS/LCS Duplicate applicable to Trip Blank – 3 resulted in high recovery values most likely due to spiking imprecision for numerous analytes. Since no target analytes were detected in this sample, no qualifications to the data were made.

LCS/LCS Duplicate applicable to SB-6 (0-2), SB-6 (12-14), SB-3 (0-2), SB-3A (0-2), SB-11 (0-2), SB-5 (0-2), SB-5 (12-14), SB-7 (0-2), SB-13 (0-2), SB-8 (0-2), SB-1 (0-2), SB-9 (0-2), SB-4 (0-2) and SB-4 (12-14) results in low recovery values for Trichlorofluoromethane, Toluene, Vinyl chloride, Chloroethane, Ethyl Ether and Chloroethane. Results have been qualified, “J-/UJ.”

LCS/LCS Duplicate applicable to SB-10 (0-2), SB-10 (12-14) and SB-12 (0-2) resulted in high Vinyl Chloride. No qualifications are required since this compound was not detected in field samples.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	<= CRQL*	Report CRQL value with a U
		>=CRQL* and <= blank concentration	Report blank value for sample concentration with a U
		>= CRQL* and > blank concentration	No qualification required
	=CRQL*	<= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
Gross Contamination**	Detects	Report blank value for sample concentration with a U	

*2x the CRQL for methylene chloride, 2-butanone and acetone.
**4x the CRQL for methylene chloride, 2-butanone, and acetone
***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

Chloromethane was detected at 0.35 ug/kg in the method blank analyzed on 1/16/16. This analyte was not detected in any of the associated field samples and therefore no impact to data.

B) Field Blank Contamination:

Target analytes were not detected in the Field Blanks

C) Trip Blank Contamination:

Acetone was detected in Trip Blank – 3 at 5.4 ug/L applicable to samples received on 1/11/16. The laboratory detected concentration of 8.1 ug/kg was negated in SB-10 (12-14).

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for these SDGs.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An

initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verifications were acceptable.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R". Method 8260C allows for a minimum response factor of 0.1 for Acetone, 2-Butanone, 2-Hexanone and 4-Methyl-2-Pentanone.

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes with the exception of Acetone (0.05) and 2-Butanone (0.09) and 1,4-Dioxane (0.001) in the ICAL applicable to Field Blanks and Trip Blanks. Additionally, 1,4-Dioxane response was low in both the soil initial and continuing calibrations (0.003/0.002). Non-detects in all soil samples have been rejected, "R."

Non-detects have been rejected, "R." the laboratory reported concentration of Acetone in Trip Blank – 3 must be considered estimated, "J" at 5.4 ug/L.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 20\%$ and eliminating either the high or the

low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists. Closing CCV must meet 30% criteria. Acceptable calibration verification was observed.

*Method 8260C allows for a number of analytes to be outside requirements due to the large number of compounds.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds with the following exceptions:

CCAL 1/8/16; Instrument "Gonzo" – Trip Blank – 2; Chloromethane – 26%, Bromomethane – 32%, Acetone – 26%, Vinyl Acetate – 22%, 2-Butanone – 21%, 2-Hexanone (22%), trans-1,4-dichloro-2-butene (22%). Non-detects have been qualified, "UJ."

CCAL 1/13/16; Instrument "Gonzo" – Trip Blank – 3; Chloromethane – 27%, Bromomethane – 21%, Acetone – 45%, Acrylonitrile – 21%, 2-Butanone – 34%, 4-Methyl-2-Pentanone – 49%, 2-Hexanone – 57%, 1,1,2,2-Tetrachloroethane – 26%, 1,2,3-Trichloropropane – 27%, 1,2-dibromo-3-chloropropane – 51%, Naphthalene - 65%. Non-detects have been qualified, "UJ."

CCAL 1/7/16; Instrument "Gonzo" – Trip Blank – 1 and Field Blank – 1; Chloromethane – 35%, Bromomethane – 24%. Non-detects have been qualified, "UJ."

CCAL 1/16/16; Instrument "Charlie" – SB-6 (0-2), SB-6 (12-14), SB-3 (0-2), SB-3A (0-2), SB-11 (0-2), SB-5 (0-2), SB-5 (12-14), SB-7 (0-2), SB-13 (0-2), SB-8 (0-2), SB-1 (0-2), SB-9 (0-2), SB-4 (0-2), SB-4 (12-14); Dichlorodifluoromethane – 22%, Vinyl chloride – 42%, Bromomethane – 36%, Chloroethane – 58%, Trichlorofluoromethane – 36%, Vinyl Acetate – 21%, 2-Butanone – 20%, 1,2-dichloroethane – 24%, Toluene – 41%, 2-Hexanone – 26%, trans-1,4-dichloro-2-butene – 28%. Results have been qualified, "UJ."

CCAL 1/18/16; Instrument VOA 110 – SB-2 (0-2); Vinyl Chloride – 36%, Bromomethane – 30%, Chloroethane – 27%, 4-Methyl-2-Pentanone – 24%, 1,2-dibromo-3-chloropropane – 21%. Non-detects have been qualified, “UJ.”

CCAL 1/18/16; Instrument VOA 110 – SB-10 (0-2), SB-10 (12-14), SB-12 (0-2); Vinyl Chloride – 49%, Bromomethane – 40%, Chloroethane – 44%, Trichlorofluoromethane – 25%, 4-Methyl-2-Pentanone – 24%. “UJ” non-detects.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, “J”, and all non-detects as “UJ”, or “R” if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Fluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with these SDGs.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples.

Generally for soil samples an acceptable RPD is 50%. Target analytes were not detected in the Field Duplicate or parent sample.

Acceptable precision was observed for the field duplicate pair for detections of Toluene and Acetone.

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Soil samples were all analyzed undiluted by low level procedures.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed.

Tentatively Identified Compounds (TICs) were not required.

2.0 Semivolatile Organics by GC/MS SW846 Method 8270D

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system

performance. The PAH and TCL Semivolatile results were considered to be valid and usable as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All samples were extracted and analyzed within the method required holding times and the technical holding times (14 days from collection to extraction and 40 days from extraction to analysis for soil samples and 7 days from collection to extraction for Field Blank samples) required for data validation.

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Samples were spiked with six (6) surrogate standards at the sample extraction portion of analysis. Acceptable recoveries were observed. Method allows for one (1) base neutral and one (1) acid recovery to be outside acceptance limits without requiring reextraction/reanalysis. The laboratory is compliant with testing.

Samples designated for PAH analysis only do not require acid recoveries to meet acceptance limits.

Field Blank – 2 (applicable to PAH soil samples from 1/6/16); Acid recoveries were not reported by the laboratory and should have been

reported on the Form 2 since the full BNA analyte list was presented. Review of the raw data indicates acceptable values were obtained. The laboratory was not requested to reissue the Form 2.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

PAH Analysis:

SB-6 (5-7) was selected by AKRF field personnel for MS/MSD.

Acceptable recovery and RPD was observed for all spiked analytes.

Semivolatile BNA Analysis:

SB-6 (0-2) was selected by AKRF field personnel for MS/MSD.

Acceptable recovery and RPD was observed for all spiked analytes with the exception of 2,4-Dinitrotoluene which recovered at 100% in the MSD. Based on professional judgment, no qualifications to the data were made based on this outlier.

The National Functional Guidelines provide and allow for flexibility when qualifying the parent sample based on MS/MSD data.

2.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch.

SDG L1600380 (PAHs):

Recovery values were acceptable for all spiked PAH analytes.

SDG L1600381 (BNA):

LCS/LCS Duplicate analysis applicable to Field Blank – 1 resulted in low Hexachlorocyclopentadiene (39%), 2,4-Dinitrophenol (16%) and 4,6-Dinitro-o-cresol (17%). Results have been qualified, "UJ." RPD fell outside range for 2,4-Dimethylphenol. No qualifications were applied based on this outlier.

LCS/LCS Duplicate analysis applicable to SB-6 (0-2), SB-6 (12-14), SB-13 (0-2), SB-8 (0-2), SB-1 (0-2), SB-5 (0-2), SB-5 (12-14), SB-7 (0-2), SB-3 (0-

2), SB-3A (0-2), SB-11 (0-2) resulted in low 3,3'-Dichlorobenzidine (37%). Non-detects for this compounds have been qualified, "UJ." Additionally, 2,4-Dinitrotoluene and Benzoic Acid fell above acceptance limits, however, since these compounds were not detected in the sample there is no bias to the reported results.

LCS/LCS Duplicate applicable to SB-9 (0-2), SB-4 (0-2), SB-4 (12-14) resulted in low Benzoic Acid (74%) and 2,6-Dinitrotoluene (64%). Non-detects have been qualified, "UJ." High Benzoic Acid recovery in the LCS Duplicate (83%) was not qualified since the compound was not detected in the associated field samples.

LCS/LCS Duplicate applicable to SB-10 (12-14), SB-2 (0-2), SB-10 (0-2), SB-12 (0-2), SB-10 (0-2), SB-12 (0-2) resulted in low 3,3'-Dichlorobenzidine (36%), Benzoic Acid (73%) Non-detects have been qualified, "UJ." High 2,4-Dinitrotoluene recovery in the LCS Duplicate (100%) was not qualified since the compound was not detected in the associated field samples and recovery is reasonable per the methodology.

2.5 Method Blanks

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Phthalates (common laboratory contaminants)	Sample Conc. is >CRQL, but </=5x blank value	Sample Conc. Is <CRQL and </=5x blank value	Sample Conc. is >CRQL and >5x blank value
Other Contaminants	Sample Conc. is >CRQL, but </=1x blank value	Sample Conc. Is <CRQL and </=1x blank value	Sample Conc. is >CRQL and >1x blank value

Below is a summary of the compounds in the sample and the associated qualification that have been applied:

A) Method Blank Contamination:

Target analytes were not detected in the method blanks associated with sample analysis.

Several samples were analyzed on Instrument SV103, however, the method blank was not analyzed on this instrument. No qualifiers were applied based on this observation.

B) Field Blank Contamination:

Target analytes were not detected in the field blanks associated with sample analysis. The laboratory reported the full Base Neutral/Acid list for Field Blank – 2 applicable to PAH samples.

2.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for semivolatile organics is decafluorotriphenylphosphine (DFTPP).

Instrument performance was generated within acceptable limits and frequency (12 hours) for decafluorotriphenylphosphine (DFTPP) for all analyses.

2.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as

estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial (average RRF) and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists. Due to the large number of analytes in this method, it is expected for some analytes to fall outside acceptance criteria and the calibration is still considered valid.

Acceptable Initial Calibration Verifications were performed.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds with the following exceptions:

CCAL 1/12/16 – SB-6 (0-2), SB-6 (12-14); Bis (2-chloroisopropyl) ether – 24%, 4-Bromophenyl phenyl ether – 21%, N-Nitrosodiphenyl amine – 23%, Hexachlorobenzene – 26%. Non-detects have been qualified, "UJ."

CCAL 1/14/16 – SB-10 (12-14), SB-2 (0-2), SB-10 (0-2), SB-12 (0-2); Bis (2-chloroisopropyl) ether – 24%, Hexachlorocyclopentadiene – 28%, . Non-detects have been qualified, “UJ.”

CCAL 1/11/16 – SB-9 (0-2), SB-4 (0-2), SB-4 (12-14); Hexachlorocyclopentadiene – 34%, Bis (2-ethylhexyl) phthalate – 20%,

2.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, “J”, and all non-detects as “UJ”, or “R” if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All area responses and retention times fell within established QC ranges for sample analysis with the exception of SB-9 (0-2) and SB-4 (12-14) where Chrysene-d12 recovered below 50% the CCAL. These samples were not reanalyzed as required by the laboratory. Sample chromatograms do not support any visible matrix interferences. Detected analytes Benzo (b) Fluoranthene and Chysene in SB-9 (0-2) quantitated from this internal standard must be considered estimated, biased high, “J+.”

No PAHs were detected in SB-4 (12-14) and therefore the data has not been qualified.

2.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties

associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50%.

Field duplicate analysis was collected on SB-3 (6-8) as SB-3A (6-8). No PAHs were detected in either analysis.

Field Duplicate was also collected on SB-3 (0-2) as SB-3A (0-2). The field duplicate analysis resulted in higher PAH concentrations (>50%) than the parent sample for Fluoranthene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) fluoranthene, Benzo (k) fluoranthene, Chrysene, Benzo (ghi) perylene, Phenanthrene, Indeno (1,2,3-cd) pyrene and Pyrene. It is recommended that the higher value be utilized for decision making purposes. Review of the raw data confirms the reported results.

2.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

Mass spectra meet criteria for all detected analytes.

Tentatively Identified Compounds (TICs) were not required.

2.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP). Samples were analyzed undiluted. Samples were extracted by Method 3546 (Microwave Extraction).

2.12 Overall System Performance

Acceptable system performance was maintained throughout the analysis. All sample analysis was initially conducted without dilutions. SB-10 (0-2) required reanalysis at 1:2 dilution due to Fluoranthene concentrations over the instruments linear range. Initial results (qualified E) by the laboratory have been rejected, "R" to guide the end user to use the diluted concentration (within range). Results for this analyte have been qualified, "D" as required by NYSDEC.

SB-12 (0-2) also required a reanalysis at 1:2 dilution for Fluoranthene and Pyrene.

3.0 Pesticides by GC SW846 Method 8081B, PCBs by SW846 Method 8082A

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Pesticide and PCB results are considered to be valid and usable as noted within the following text:

3.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were extracted and analyzed within the method required holding times and the technical holding times required for data validation (14 days for soil and 7 days for field blanks) for extraction. All extracts were analyzed within forty (40) days in accordance with the analytical method requirements.

3.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of

analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. No qualifications were applied if one of the spiked surrogates is above acceptance limits on one of the two columns. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Pesticides:

Acceptable surrogate recovery values for TCMX and DCB were observed.

PCBs:

Acceptable surrogate recovery values for TCMX and DCB were observed for all analyses with the exception of TCMX which recovered low on primary column analysis of SB-4 (0-2). No laboratory action is required. This surrogate yielded acceptable recovery values on secondary column. No qualifications to the data is required.

3.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

The National Functional Guidelines indicate that MS/MSD data alone shall not be utilized to qualify sample data. MS/MSD was submitted with each batch. Data was not qualified for non-site specific QC based on professional judgment.

Pesticides/PCBs:

SB-6 (0-2) was selected for Pesticide and PCB MS/MSD. Acceptable recovery and RPD were obtained for all spiked analytes.

3.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch for Pesticides and PCBs. Recovery values were acceptable and no qualifications were applied.

3.5 Blanks

Quality assurance (QA) blanks; i.e. method, instrument, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Any Contaminant	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value

Extraction and Instrument blanks were performed at the appropriate frequency.

Below is a summary of blank contamination:

- A) **Method Blank Contamination:**
No target analytes were detected in the associated method blanks and no data validation qualifiers were required based upon method blank data.

- B) **Field Blank Contamination:**
Target analytes were not detected in the Field Blanks associated with sample analysis.

3.6 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual and multi-component Pesticide and PCBs standards. Acceptable DDT and Endrin breakdown percent difference (<20%) was observed. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns.

Linearity criteria for the initial standards have been satisfied for both columns as detailed below:

%RSD \leq 20% for single component compounds except alpha-BHC and delta-BHC

%RSD \leq 30% for Toxaphene peaks

%RSD \leq 30% for surrogates (TCMX and DCB)

%RSD $<$ 20% for PCB aroclors

%RSD $<$ 20% for Silvex (Herbicide)

Continuing calibration verifications:

For Pesticide analysis acceptable percent difference for any pesticide is 20% and for PCB analysis, the acceptable limit is 15%.

Calibrations met method requirements for Pesticide and PCBs.

3.7 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples are also expected to have a greater variance due to the difficulties associated with collecting exact duplicate soil samples. Generally for soil samples an acceptable RPD is 50%.

Field Duplicate analysis was collected as follows:

SB-3 (0-2)

Field Duplicate SB-3A (0-2)

Acceptable precision was observed for detected analyte 4,4'-DDT (2.93 ug/kg vs. 4.86 ug/kg). It is recommended that the end user make decisions based on the higher value. Results must be considered estimated, "J" due to % difference $>$ 25% when quantitated on each column.

PCBs were not detected in either analysis.

3.8 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards

Sample analysis was conducted via the internal standard method.

Acceptable DDT/Endrin breakdown was observed.

Positive Pesticide and PCB sample results are compared and where %Difference >25% when quantitated on the two columns the qualifications below are applied. Sample chromatograms were reviewed for the presence of interference. The following qualifications were applied where neither column shows interference:

<u>%Difference</u>	<u>Qualifier</u>
0-25%	None
26-70%	“J”
71-100%	“JN”
101-200% (no interference)	“R”
101-200% (interference detected)*	“JN”
>50% (Pesticide value is <CRQL)**	“U”
>201%	“R”

*When the reported %D is 101-200%, but interference is determined on either column, the results shall be qualified, “JN”

** When the reported pesticide value is lower than the CRQL, and the %D is >50%, raise the value to the CRQL and qualify “U”, undetected.

As recommended by SW846 Method 8000, the laboratory has reported the lower value obtained when comparison of each column for Pesticides and PCBs.

Acceptable percent difference was obtained for all detected analytes in the QC samples. 4,4'-DDT yielded >25% D in field duplicate SB-3A (0-2) and therefore has been qualified, “J.” No additional target compounds were detected in any of the field samples pertaining to these SDGs besides the field duplicate pair.

3.9 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower of the concentrations for primary/confirmatory column results as required. Soil results were reported on a dry weight basis as required.

Samples were analyzed undiluted.

3.10 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

Soil samples were concentrated to 10ml for Pesticides and PCBs. This is acceptable practice and method compliant. The laboratory reporting levels reflect the appropriate extraction concentration volume.

4.0 Metals by ICP/Cold Vapor SW846 Methods 6010C/7471B

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP serial dilutions and sample results verification. The soil and field blank results are considered to be valid and usable with the appropriate qualifiers as notated in the following text:

4.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Soil samples and Field Blanks were digested and analyzed for TAL Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

4.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments are capable of producing acceptable quantitative data. An initial calibration demonstrates that the instruments are capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP and Mercury instruments were calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations have been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels, and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICP and Mercury (80-120%) for all field samples.

No qualifications were applied based upon ICV/CCV analysis.

4.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB/Field blanks were generated within acceptable limits yielding final concentrations less than the CRDL.

Low concentrations of Antimony, Copper, Iron, Lead, Selenium, Aluminum, Barium, Arsenic, Magnesium, Sodium, Silver, Chromium, and Mercury were detected in the ICBs/CCBs. Sample concentrations were determined to be greater than the blank levels when ICB/CCB were converted from mg/L to mg/kg with the exception of Selenium in SB-10 (5-7), SB-12 (6-8), SB-3 (0-2) and SB-10 (0-2) which were negated. No additional qualifications to the data were made.

Low detections of Arsenic (0.0021 mg/L) was detected in the method blank associated with Field Blank – 2. The laboratory reported concentration of 0.0028 mg/L was negated, “U.”

No additional qualifications to the data were made based upon blank contamination.

4.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects

Between 30%-74% - results \geq MDL "J" and non-detects "UJ"

Between 126-150% - results \geq MDL "J" and

>150% - results \geq MDL "R"

Soil spike recoveries are qualified based on the criteria below:

<10% - "R" all detects and non-detects

Between 10%-74% - results \geq MDL "J" and non-detects "UJ"

Between 126-200% - results \geq MDL "J" and

>200% - results \geq MDL "R"

Soil MS/MSD data was submitted with each data package. SB-6 (5-7) was selected by AKRF field personnel. Acceptable recovery values were obtained where the sample concentration was <4x the spike level (Aluminum, Iron and Manganese). No qualifications to the data were required for these elements. Calcium recovered at 72% in the MSD. The laboratory reported concentration for this element in the parent sample must be considered biased low, "J-" in SB-6 (5-7). Magnesium has been qualified, estimated, biased high, "J+."

Acceptable post digestion spike was performed on SB-6 (5-7) thus concluding matrix effect on spike recovery values above.

Field Blank – 2 was selected for MS analysis on the liquid samples. Acceptable recovery values were obtained for all elements. A post digestion spike was also performed on this sample yielding acceptable results.

Mercury MS/MSD on SB-6 (5-7) resulted in high recovery values (159%/163%). This element was not detected in the parent sample and therefore high recovery does not support any potential loss of detection.

Mercury MS on SB-11 (6-8) also results in high recovery values of 176%. Again, there is not impact to the data since Mercury was not detected in the parent sample.

SB-6 (0-2) was also selected for MS/MSD analysis. Aluminum, Iron and Manganese recovered outside limits due to high concentration in sample relative to spike amount. No qualifications are required for these elements.

Mercury also recovered high in SB-6 (0-2) at 200/231%. Acceptable post digestion spike was performed. Mercury detection of 0.14 mg/kg in SB-6 (0-2) must be considered estimated, biased high, J+

Chromium, Lead and Magnesium recovered high. Results must be considered estimated, "J" in the parent sample SB-6 (0-2).

No qualifications to the data were made for non-site specific MS/MSD.

4.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data in order to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD >20% but <100% - J detected concentrations

RPD >=100% - R all detected and non-detected concentrations

Field Duplicates:

RPD >=35% but <120% - qualify sample and duplicate results >= CRQL "J"

RPD >= 120% - reject sample and duplicate results >= CRQL "R"

Field Duplicate analysis was submitted on SB-3 (6-8) as SB-3A (6-8). Aluminum, Calcium, Iron, Manganese have been qualified, "J." Non-detects for Antimony must be considered estimated, "UJ" in SB-3A (6-8).

Additionally, Field Duplicate analysis was submitted on SB-3 (0-2) as SB-3A (0-2). Barium, Calcium and Magnesium resulted in high %D and have been qualified, "J."

Acceptable laboratory duplicates on batch samples were performed yielding acceptable precision with exceptions noted below:.

Laboratory duplicate analysis was performed on Field Blank – 2. Calcium was detected in the original parent sample at 0.082 mg/L but not in the duplicate analysis. Low concentrations have been reported as estimated, “J” by the laboratory. No additional qualifications to the data were required.

Laboratory duplicate analysis of SB-11 (6-8) was acceptable for Mercury.

In cases where batch duplicate analysis was submitted, no qualifications to the data were made.

4.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for all ICP and Mercury analysis. Associated LCS recoveries were within the acceptable limits for Metals analyses (80-120%).

4.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferents.

SW846 Method 6010 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

4.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether or not significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP serial dilutions were performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. All serial dilution analyses agree within a 10% difference of the original determination after correction for dilution for all reported elements with exceptions noted below:

SB-6 (5-7) – Aluminum (13%), Calcium (14%), Iron (12%) and Manganese (15%). Results have been qualified, “J/UJ.”
Serial dilution analysis of SB-6 (0-2) resulted in all elements <10%.

4.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results. Samples were analyzed at various dilutions as noted on the Form I's. Reported dilutions confirm with raw data submissions.


4.10 Overall Assessment of Data

The data generated were of acceptable quality. For the Metals analysis results are usable at the concentrations presented in the validated Form I's.

Reviewer's Signature Paula Bayer Date 02/09/2016


**Appendix A
Chain of Custody
Documents**


2/24/2011

 <p>NEW YORK CHAIN OF CUSTODY</p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p>Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>	<p>Page 1 of 1</p>	<p>Date Rec'd In Lab 1/6/16</p>	<p>ALPHA Job # 11600380</p>																																																																																																										
	<p>Project Information</p> <p>Project Name: 94-02 148th Street and 147-20 94th Ave Project Location: Queens NY Project # 12212 (Use Project name as Project #) <input checked="" type="checkbox"/></p>	<p>Deliverables</p> <p><input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input checked="" type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other</p>	<p>Billing Information</p> <p><input checked="" type="checkbox"/> Same as Client Info PO#</p>																																																																																																											
<p>Client Information</p> <p>Client: AKRF Address: 34 South Broadway Suite 401 White Plains, NY 10601 Phone: 914-922-2371 Fax: 914-949-7559 Email: sgrens@akrf.com</p>	<p>Project Manager: Steve Grens ALPHAQuote #: Turn-Around Time: Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:</p>	<p>Regulatory Requirement</p> <p><input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge</p>	<p>Disposal Site Information</p> <p>Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:</p>																																																																																																											
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p>Other project specific requirements/comments: Category B deliverables / Keep all SDC's per</p> <p>Please specify Metals or TAL.</p>		<p>ANALYSIS</p> <table border="1"> <tr> <th>VOC - 8260</th> <th>SVOC - 8270</th> <th>PEST - 8081</th> <th>PCB - 8082</th> <th>TAL Metals</th> <th>Dissolved TAL Metals</th> <th>PATHS (6-7-7)</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	VOC - 8260	SVOC - 8270	PEST - 8081	PCB - 8082	TAL Metals	Dissolved TAL Metals	PATHS (6-7-7)								<p>Sample Filtration</p> <p><input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please Specify below)</p> <p>Sample Specific Comments</p>																																																																																													
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ALPHA Lab ID (Lab Use Only)			Sample ID	Collection										Sample Matrix	Sampler's Initials	VOC - 8260	SVOC - 8270	PEST - 8081	PCB - 8082	TAL Metals	Dissolved TAL Metals	PATHS (6-7-7)																																																																																								
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-04	Field Blank - 2		1:30	Ag						X	X																																																																																																			
						A	A																																																																																																							
						A	A																																																																																																							

* collection date 1/6/16

John
2/7/16

 NEW YORK CHAIN OF CUSTODY		Service Centers Meliweh, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab <i>1/7/16</i>		ALPHA Job # <i>C1800380</i>					
Westborough, MA 01681 8 Walkup Dr. TEL 508-896-9220 FAX 508-896-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9390 FAX: 508-822-3288		Project Information Project Name: 94-02 148th Street and 147-20 94th Ave Project Location: Queens NY				Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input checked="" type="checkbox"/> EQUS (1 File) <input type="checkbox"/> EQUS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #			
Client Information Client: AKRF Address: 34 South Broadway Suite 401 White Plains, NY 10601 Phone: 914-922-2371 Fax: 914-949-7559 Email: sgrens@akrf.com				Project # <i>12207</i> (Use Project name as Project #) <input type="checkbox"/> Project Manager: Steve Grens ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:				Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AIWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input checked="" type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <i>Category B deliverables / Keep SDG open</i>				ANALYSIS				Sample Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please Specify below)					
Please specify Metals or TAL.				VOC - 8260 SVOC - 8270 PEST - 8081 PCB - 8082 TAL Metals Dissolved TAL Metals <i>PAHs (8270)</i>				Sample Specific Comments					
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		VOC - 8260 SVOC - 8270 PEST - 8081 PCB - 8082 TAL Metals Dissolved TAL Metals		Sample Specific Comments	
00380-05		SB-11 (6-B)		1/7/16 07:55		Soil		SG					
06		SR-5 (5-7)											
07		SR-13 (6-E)											
08		SR-1 (6-E)											
09		SB-9 (6-E)											
10		SB-4 (5-7)											
		Trip Blank (SG)		NA		Ag		NA					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		A A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.			
		Requisitioned By: <i>[Signature]</i>		Date/Time: <i>1/7/16 14:15</i>		Received By: <i>[Signature]</i>		Date/Time: <i>1-7-16 14:15</i>					
		Requisitioned By: <i>[Signature]</i>		Date/Time: <i>1-7-16 18:20</i>		Received By: <i>[Signature]</i>		Date/Time: <i>1-7-16 18:20</i>					
		Requisitioned By: <i>[Signature]</i>		Date/Time: <i>1/7/16 23:30</i>		Received By: <i>[Signature]</i>		Date/Time: <i>1/7/16 23:30</i>					

 NEW YORK CHAIN OF CUSTODY		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 6 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 of 1		Date Rec'd in Lab 1/11/16		ALPHA Job # L1600380			
Westborough, MA 01561 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-522-9300 FAX: 508-827-3286		Project Information Project Name: 94-02 148th Street and 147-20 94th Ave Project Location: Queens NY Project #: 12297 (Use Project name as Project #) <input type="checkbox"/>				Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO#	
Client Information Client: AKRF Address: 34 South Broadway Suite 401 White Plains, NY 10601 Phone: 914-922-2371 Fax: 914-949-7559 Email: sgrems@akrf.com				Project Manager: Steve Grems ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:				Regulatory Requirement <input type="checkbox"/> NY TOGS <input type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Category B deliverables / Close SDG				ANALYSIS				Sample Filtration <input type="checkbox"/> Done <input checked="" type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please Specify below)		Sample Specific Comments	
Please specify Metals or TAL.											
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix	Sampler's Initials	TAL Metals	PAH - 6270		
				Date Time							
00380 - 11		SB-2 (6-4)		1/11/16 08:30		Soil	SG	X	X		
12		SB-10 (6-7)		↓ 09:00		↓	↓	X	X		
13		SB-12 (6-4)		↓ 09:45		↓	↓	X	Y		
Preservative Code:		Container Code:		Westboro: Certification No: MA935		Container Type		A	A		
A = None		P = Plastic		Mansfield: Certification No: MA015		Preservative		A	A		
B = HCl		A = Amber Glass									
C = HNO ₃		V = Vial									
D = H ₂ SO ₄		G = Glass									
E = NaOH		B = Bacteria Cup									
F = MeOH		C = Cube									
G = NaHSO ₄		O = Other									
H = Na ₂ S ₂ O ₃		E = Encore									
K/E = Zn Ac/NaOH		D = BOD Bottle									
O = Other											
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By:		Date/Time		Received By:		Date/Time		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.	
		[Signature]		1/11/16 13:30		[Signature]		1/11/16 13:30			
		[Signature]		1-11-16 2100		[Signature]		1-11-16 2100			
		[Signature]		1/11/16 22:50		[Signature]		1/11/16 22:50			

NEW YORK CHAIN OF CUSTODY

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-896-9220
FAX: 508-896-9193

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Project Information

Project Name: 94-02 148th Street and 147-20 94th Ave
Project Location: Queens NY
Project # 12-3517

Client Information

Client: AKRF
Address: 34 South Broadway
Suite 401 White Plains, NY 10601
Phone: 914-922-2371
Fax: 914-949-7559
Email: sgrns@akrf.com

Regulatory Requirement

NY TOGS NY Part 375
AWQ Standards NY CP-51
NY Restricted Use Other
NY Unrestricted Use
NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other

ANALYSIS

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
Custody B deliveries / Keep all SDG's open

Sample Filtration

Done
 Lab to do Preservation
 Lab to do
(Please Specify, below)
Sample Specific Comments

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Samplers Initials	VOC - 8260	SVOC - 8270	PEST - 8081	PCB - 8082	TAL Metals	Dissolved TAL Metals
00381-01	SB-6 (0-2)	1/6/16	10:00	SL	SL	X	X	X	X	X	
↓	SB-6 MS (0-2)		10:00			X	X	X	X	X	
-02	SB-6 MSD (0-2)		10:10			X	X	X	X	X	
-03	SB-3 (0-2)		11:00			X	X	X	X	X	
-04	SB-3A (0-2)		11:05			X	X	X	X	X	
-05	Field Blank-1		12:50	AB	↓	X	X	X	X	X	
-06	Trip Blank-1	1/4/16	N/A			X					

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₈
K/E = Zn Ac/NaOH
O = Other

Container Code:
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No. MA935
Mansfield: Certification No. MA015

Relinquished By: *[Signature]* Date/Time: 1/16/16 15:00
Received By: *[Signature]* Date/Time: 1/16/16 16:30

Container Type: FA
Preservative: A

Form No. 01-25 (rev. 30-Sept-2013)

Client Information
 Client: AKRE
 Address: 34 South Broadway
 Suite 401 White Plains, NY 10601
 Phone: 914-922-2371
 Fax: 914-949-7559
 Email: sgrems@akrf.com

Project Information
 Project Name: 94-02 148th Street and 147-20 94th Ave
 Project Location: Queens NY
 Project #: 12277
 (Use Project name as Project #)
 Project Manager: Steve Grems
 ALPHAQuote #: _____
 Turn-Around Time
 Standard Rush (only if pre approved)
 Due Date: _____
 # of Days: _____

Deliverables
 ASP-A
 ASP-B
 EQSIS (1 File)
 EQSIS (4 File)
 Other

Regulatory Requirement
 NY TOGS
 NY Part 375
 AWQ Standards
 NY CP-51
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
 Please identify below location of applicable disposal facilities.
 Disposal Facility:
 NJ NY
 Other

Billing Information
 ALPHA Job # 1600381
 Same as Client Info
 PO # _____

ANALYSIS

VOC - 8260
 SVOC - 8270
 PCB - 8082
 TAL Metals
 Dissolved TAL Metals

Sample ID	Collection Date	Time	Sample Matrix	Samplers Initials	VOC - 8260	SVOC - 8270	PCB - 8082	TAL Metals	Dissolved TAL Metals
00381-07	1/7/16	07:50	Soil	SG	X	X	X	X	
09		09:45			X	X	X	X	
10		09:35			X	X	X	X	
11		10:00			X	X	X	X	
12		10:10			X	X	X	X	
13		10:30			X	X	X	X	
14		10:45			X	X	X	X	
15		11:05			X	X	X	X	
16		11:15			X	X	X	X	

Preservative Code:
 A = None
 B = HCl
 C = HNO₃
 D = H₂SO₄
 E = NaOH
 F = MeOH
 G = NaHSO₄
 H = Na₂S₂O₃
 I/E = Zn Ac/NaOH
 O = Other

Container Code:
 P = Plastic
 A = Amber Glass
 V = Vial
 G = Glass
 B = Bacteria Cup
 C = Cube
 O = Other

Westboro: Certification No: MA935
 Mansfield: Certification No: MA015

Sample ID	Collection Date	Time	Sample Matrix	Samplers Initials	Container Type	Preservative	Received By:	Date/Time
00381-07	1/7/16	07:50	Soil	SG	E	A	Steve Grems	1/7/16 14:15
09		09:45			A	A	Steve Grems	1/7/16 14:15
10		09:35			A	A	Steve Grems	1/7/16 14:15
11		10:00			A	A	Steve Grems	1/7/16 14:15
12		10:10			A	A	Steve Grems	1/7/16 14:15
13		10:30			A	A	Steve Grems	1/7/16 14:15
14		10:45			A	A	Steve Grems	1/7/16 14:15
15		11:05			A	A	Steve Grems	1/7/16 14:15
16		11:15			A	A	Steve Grems	1/7/16 14:15

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Other project specific requirements/comments: CATEGORICAL Deliverables / Keep SDG clean.

Please specify Metals or TAL.

Form No: 01-25 (rev. 30-Sept-2013)

**NEW YORK
CHAIN OF
CUSTODY**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 6
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 2
of 2

Project Information

Project Name: 94-02 148th Street and 147-20 94th Ave
Project Location: Queens NY
Project # 12252

Deliverables

ASP-A
 ASP-B
 EQUIS (1 File)
 EQUIS (4 File)
 Other

Regulatory Requirement

NY TOGS
 NY Part 375
 AWQ Standards
 NY CP-51
 NY Restricted Use
 Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ
 NY
 Other.

Client Information

Client: AKRF
Address: 34 South Broadway
Suite 401 White Plains, NY 10601
Phone: 914-922-2371
Fax: 914-949-7559
Email: sgrems@akrf.com

Project Information

(Use Project name as Project #)
Project Manager: Steve Grems
ALPHAQuote #:
Turn-Around Time
Standard
Rush (only if pre approved)
Due Date:
of Days:
These samples have been previously analyzed by Alpha
Other project specific requirements/comments:

ANALYSIS

VOC - 8260
SVOC - 8270
PEST - 8081
PCB - 8082
TAL Metals
Dissolved TAL Metals

Billing Information

ALPHA Job # 1600381
 Same as Client Info
PO #

Sample ID: 00381-17 Date: 1/7/16 Time: NA Matrix: Ag. Initials: NA

Sample Specific Comments: Category B deliverables/keep SDG open

Sample Filtration: Done, Lab to do Preservation, Lab to do

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle

Westboro: Certification No: MA935, Mansfield: Certification No: MA015

Relinquished By: [Signature] Date/Time: 1/7/16 14:15

Received By: [Signature] Date/Time: 1/7/16 14:15

Form No: 01-25 (rev. 30-Sept-2013)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

NEW YORK CHAIN OF CUSTODY

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9320
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-522-8300
FAX: 508-522-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 106

Page 1 of 1

ALPHA Job #
L1600381

Date Rec'd in Lab
1/11/16

Client Information
Client: AKRF
Address: 34 South Broadway
Suite 401 White Plains, NY 10601
Phone: 914-922-2371
Fax: 914-949-7559
Email: sgrems@akrf.com

Project Information
Project Name: 94-02 148th Street and 147-20 94th Ave
Project Location: Queens NY
Project # 17252

Project Manager: Steve Grens
ALPHAQuote #:
Turn-Around Time
Standard Rush (only if pre-approved)
Due Date: # of Days:

Deliverables
 ASP-A ASP-B
 EQUIS (1 File) EQUIS (4 File)
 Other

Billing Information
 Same as Client Info
PO #

Regulatory Requirement
 NY TOGS NY Part 375
 AWQ Standards NY CP-51
 NY Restricted Use Other
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other:

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
Category B deliverables / Close SDG

ANALYSIS
VOC - 8260
SVOC - 8270
PEST - 8081
PCB - 8082
Dissolved TAL Metals
TAL Metals

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	VOC - 8260	SVOC - 8270	PEST - 8081	PCB - 8082	Dissolved TAL Metals	TAL Metals	Sample Specific Comments
00381-18	SB-2(0-2)	1/11/16	08:15	Sg.1	SG	X	X	X	X	X	X	
19	SB-10(0-2)		08:50			X	X	X	X	X	X	
20	SB-10(12-14)		09:10			X	X	X	X	X	X	
21	SB-12(0-2)		09:30		VK	X	X	X	X	X	X	
22	Top Blank-3	1/4/16	NA	Ag	NA	X	X	X	X	X	X	

Please specify Metals or TAL.
Sample Filtration
 Done
 Lab to do Preservation
 Lab to do
(Please Specify below)

Preservative Code:
A = None
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Container Type: E A A A A
Preservative: A A A A A

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By: [Signature]
Date/Time: 1/11/16 13:30
Received By: [Signature]
Date/Time: 1-11-16 13:11

Relinquished By: [Signature]
Date/Time: 1-11-16 21:00
Received By: [Signature]
Date/Time: 1-11-16 21:00

Relinquished By: [Signature]
Date/Time: 1/11/16 22:50
Received By: [Signature]
Date/Time: 1/11/16 22:50



Sample Delivery Group Form

Laboratory Job number: L1600380

Project Manager: Ben Rao

Review Date: 01/12/2016

Project Number: 12292

Project Name: 94-02 148TH ST&147-20 94TH AVE

Received: 01/11/2016 13:30

Client Account: AKRF, Inc.

Received by: SH/JK & RR/GP & JK/SH

Samples Delivered by: COURIER		Call Tracker #	
Bill Of Laden N/A	Trackingnum		
Coc Present Present			
Container Status Intact		Sample IDs	
All Containers Accounted For? Yes			
Were Extra Samples Received? No			
Do Sample Labels and COC agree? Yes			
Are Samples in Appropriate Containers? Yes			
Are Samples Received within Holding time? Yes			
pH of Samples upon Receipt <2,7		Are samples Properly Preserved? Yes	
Initial pH	preserved in house with	Final pH	
Other Issues			
Chlorine Check N/A			
Are VOA/VPH Vials Present? No			
Aqueous: Do Vials Contain Head Space? N/A			
Soils: Is MeOHCovering the Soil? N/A			
Reagent H2O Preserved vials Frozen on N/A			
Frozen by Client N/A			

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.1 - IR Gun	No	No



Sample Delivery Group Form

B	Absent	Yes	No	2.9 - IR Gun	No	No
C	Absent	Yes	No	4.0 - IR Gun	No	No
D	Absent	Yes	No	4.2 - IR Gun	No	No



Sample Delivery Group Form

Laboratory Job number: L1600381

Project Manager: Ben Rao

Review Date: 01/12/2016

Project Number: 12292

Project Name: 94-02 148TH ST&147-20 94TH AVE

Received: 01/11/2016 13:30

Client Account: AKRF, Inc.

Received by: SH/ & RR/GP & JK /SH

Samples Delivered by: COURIER		Call Tracker #	
Bill Of Laden N/A	Trackingnum		
Coc Present Present			
Container Status Intact		Sample IDs	
All Containers Accounted For? Yes			
Were Extra Samples Received? No			
Do Sample Labels and COC agree? Yes			
Are Samples in Appropriate Containers? Yes			
Are Samples Received within Holding time? Yes			
pH of Samples upon Receipt <2,7		Are samples Properly Preserved? Yes	
Initial pH	preserved in house with	Final pH	
Other Issues			
Chlorine Check N/A			
Are VOA/VPH Vials Present? Yes			
Aqueous: Do Vials Contain Head Space? No			
Soils: Is MeOHCovering the Soil? N/A Encores			
Reagent H2O Preserved vials Frozen on N/A			
Frozen by Client N/A			

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
A	Absent	Yes	No	3.1 - IR Gun	No	No



Sample Delivery Group Form

B	Absent	Yes	No	2.9 - IR Gun	No	No
C	Absent	Yes	No	4.0 - IR Gun	No	No
D	Absent	Yes	No	4.2 - IR Gun	No	No

**Appendix B
Case Narratives**

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600380
Report Date: 01/18/16

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Report Submission

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

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600380
Report Date: 01/18/16

Case Narrative (continued)

MDL column.

Metals

L1600380-01, -02, -03, -05 through -13: 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.

The WG855353-3/-4 MS/MSD recoveries, performed on L1600380-01, are outside the acceptance criteria for mercury (159%/163%). A post digestion spike was performed and was within acceptance criteria.

The WG855366-3/-4 MS/MSD recoveries for aluminum (241%/302%), iron (0%/0%) and manganese (0%/24%), performed on L1600380-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG855366-4 MSD recoveries, performed on L1600380-01, are outside the acceptance criteria for calcium (72%) and magnesium (127%). A post digestion spike was performed and was within acceptance criteria.

The WG855675-4 MS recovery, performed on L1600380-05, is outside the acceptance criteria for mercury (176%). A post digestion spike was performed and yielded an unacceptable recovery of 132%. This has been attributed to sample matrix.

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:



Report Date: 01/18/16

Title: Technical Director/Representative



Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600381
Report Date: 01/19/16

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Report Submission

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

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600381
Report Date: 01/19/16

Case Narrative (continued)

MDL column.

Volatile Organics

L1600381-22: The Trip Blank has results for acetone present above the reporting limit. The sample vial was verified as being labeled correctly by the laboratory and the previous analysis showed there was no potential for carry over.

Metals

L1600381-01 through -04, -08 through -16, and -18 through -21: 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.

L1600381-07: The sample has elevated detection limits for all elements due to the dilution required by matrix interferences encountered during analysis.

The WG855366-7/-8 MS/MSD recoveries, performed on L1600381-01, are outside the acceptance criteria for calcium (MS at 130%), chromium (MSD at 143%), lead (MSD at 137%), magnesium (185%/127%), and sodium (MS at 128%). A post digestion spike was performed and was within acceptance criteria.

The WG855366-7/-8 MS/MSD recoveries for aluminum (1360%/1010%), iron (0%/0%), and manganese (0%/170%), performed on L1600381-01, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG855366-7/-8 MS/MSD RPDs for chromium (21%), lead (22%) and manganese (29%), performed on L1600381-01, are above the acceptance criteria.

Total Mercury

The WG855353-5/-6 MS/MSD recovery, performed on L1600381-01, is outside the acceptance criteria for mercury (200%/231%). A post digestion spike was performed and was within acceptance criteria.

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: *June L. King*

Report Date: 01/19/16

Title: Technical Director/Representative



PART 1
PAH and TAL Metals (SDG L1600380)
Appendix C
Data Summary Form I's
With Qualifications

Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600380-08
 Client ID : SB-1 (6-8)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00380-08
 Sample Amount : 30.15 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600380
 Project Number: 12292
 Date Collected : 01/07/16 10:35
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 17:02
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.1
 GC Column : RTX-5
 %Solids : 81
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
91-58-7	2-Chloronaphthalene	ND	210	20.	U
206-44-0	Fluoranthene	ND	120	24.	U
91-20-3	Naphthalene	ND	210	25.	U
56-55-3	Benzo(a)anthracene	ND	120	23.	U
50-32-8	Benzo(a)pyrene	ND	160	50.	U
205-99-2	Benzo(b)fluoranthene	ND	120	35.	U
207-08-9	Benzo(k)fluoranthene	ND	120	33.	U
218-01-9	Chrysene	ND	120	21.	U
208-96-8	Acenaphthylene	ND	160	32.	U
120-12-7	Anthracene	ND	120	40.	U
191-24-2	Benzo(ghi)perylene	ND	160	24.	U
86-73-7	Fluorene	ND	210	20.	U
85-01-8	Phenanthrene	ND	120	25.	U
53-70-3	Dibenzo(a,h)anthracene	ND	120	24.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	160	29.	U
129-00-0	Pyrene	ND	120	20.	U
91-57-6	2-Methylnaphthalene	ND	250	25.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-11	Date Collected : 01/11/16 08:30
Client ID : SB-2 (6-8)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 14:27
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-11	Analyst : JB
Sample Amount : 30.19 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 96
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
206-44-0	Fluoranthene	ND	100	20.	U
91-20-3	Naphthalene	ND	170	21.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	140	42.	U
205-99-2	Benzo(b)fluoranthene	ND	100	29.	U
207-08-9	Benzo(k)fluoranthene	ND	100	28.	U
218-01-9	Chrysene	ND	100	18.	U
208-96-8	Acenaphthylene	ND	140	27.	U
120-12-7	Anthracene	ND	100	34.	U
191-24-2	Benzo(ghi)perylene	ND	140	20.	U
86-73-7	Fluorene	ND	170	17.	U
85-01-8	Phenanthrene	ND	100	21.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	20.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	140	24.	U
129-00-0	Pyrene	ND	100	17.	U
91-57-6	2-Methylnaphthalene	ND	210	21.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-02	Date Collected : 01/06/16 11:10
Client ID : SB-3 (6-8)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 14:52
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-02	Analyst : JB
Sample Amount : 30.7 g	Instrument ID : SV115.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	20.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
206-44-0	Fluoranthene	ND	110	22.	U
91-20-3	Naphthalene	ND	190	23.	U
56-55-3	Benzo(a)anthracene	ND	110	21.	U
50-32-8	Benzo(a)pyrene	ND	150	46.	U
205-99-2	Benzo(b)fluoranthene	ND	110	32.	U
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U
218-01-9	Chrysene	ND	110	20.	U
208-96-8	Acenaphthylene	ND	150	29.	U
120-12-7	Anthracene	ND	110	37.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	190	18.	U
85-01-8	Phenanthrene	ND	110	23.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	22.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	150	26.	U
129-00-0	Pyrene	ND	110	19.	U
91-57-6	2-Methylnaphthalene	ND	220	23.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-03	Date Collected : 01/06/16 11:15
Client ID : SB-3A (6-8) (DUP of SB-3 6-8)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 15:18
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-03	Analyst : JB
Sample Amount : 30.08 g	Instrument ID : SV115.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 93
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
206-44-0	Fluoranthene	ND	110	20.	U
91-20-3	Naphthalene	ND	180	22.	U
56-55-3	Benzo(a)anthracene	ND	110	20.	U
50-32-8	Benzo(a)pyrene	ND	140	44.	U
205-99-2	Benzo(b)fluoranthene	ND	110	30.	U
207-08-9	Benzo(k)fluoranthene	ND	110	29.	U
218-01-9	Chrysene	ND	110	19.	U
208-96-8	Acenaphthylene	ND	140	28.	U
120-12-7	Anthracene	ND	110	35.	U
191-24-2	Benzo(ghi)perylene	ND	140	21.	U
86-73-7	Fluorene	ND	180	17.	U
85-01-8	Phenanthrene	ND	110	22.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	140	25.	U
129-00-0	Pyrene	ND	110	18.	U
91-57-6	2-Methylnaphthalene	ND	210	22.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-10	Date Collected : 01/07/16 11:10
Client ID : SB-4 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 17:55
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-10	Analyst : JB
Sample Amount : 30 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
206-44-0	Fluoranthene	ND	100	20.	U
91-20-3	Naphthalene	ND	170	21.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	140	41.	U
205-99-2	Benzo(b)fluoranthene	ND	100	29.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	18.	U
208-96-8	Acenaphthylene	ND	140	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	140	20.	U
86-73-7	Fluorene	ND	170	16.	U
85-01-8	Phenanthrene	ND	100	21.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	20.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	140	24.	U
129-00-0	Pyrene	ND	100	17.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-06	Date Collected : 01/07/16 09:40
Client ID : SB-5 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 16:10
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-06	Analyst : JB
Sample Amount : 30.99 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 80
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
206-44-0	Fluoranthene	ND	120	23.	U
91-20-3	Naphthalene	ND	200	25.	U
56-55-3	Benzo(a)anthracene	ND	120	23.	U
50-32-8	Benzo(a)pyrene	ND	160	49.	U
205-99-2	Benzo(b)fluoranthene	ND	120	34.	U
207-08-9	Benzo(k)fluoranthene	ND	120	32.	U
218-01-9	Chrysene	ND	120	21.	U
208-96-8	Acenaphthylene	ND	160	31.	U
120-12-7	Anthracene	ND	120	39.	U
191-24-2	Benzo(ghi)perylene	ND	160	24.	U
86-73-7	Fluorene	ND	200	20.	U
85-01-8	Phenanthrene	ND	120	24.	U
53-70-3	Dibenzo(a,h)anthracene	ND	120	23.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	160	28.	U
129-00-0	Pyrene	ND	120	20.	U
91-57-6	2-Methylnaphthalene	ND	240	24.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-01	Date Collected : 01/06/16 10:05
Client ID : SB-6 (5-7)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 14:26
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-01	Analyst : JB
Sample Amount : 30.72 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 95
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
206-44-0	Fluoranthene	ND	100	20.	U
91-20-3	Naphthalene	ND	170	21.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	140	42.	U
205-99-2	Benzo(b)fluoranthene	ND	100	29.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	18.	U
208-96-8	Acenaphthylene	ND	140	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	140	20.	U
86-73-7	Fluorene	ND	170	17.	U
85-01-8	Phenanthrene	ND	100	21.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	20.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	140	24.	U
129-00-0	Pyrene	ND	100	17.	U
91-57-6	2-Methylnaphthalene	ND	200	21.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-09	Date Collected : 01/07/16 10:50
Client ID : SB-9 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 17:28
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-09	Analyst : JB
Sample Amount : 30.43 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
206-44-0	Fluoranthene	ND	100	19.	U
91-20-3	Naphthalene	ND	170	20.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	130	41.	U
205-99-2	Benzo(b)fluoranthene	ND	100	28.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	18.	U
208-96-8	Acenaphthylene	ND	130	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	130	20.	U
86-73-7	Fluorene	ND	170	16.	U
85-01-8	Phenanthrene	ND	100	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	19.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	130	23.	U
129-00-0	Pyrene	ND	100	17.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-12	Date Collected : 01/11/16 09:00
Client ID : SB-10 (5-7)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 14:53
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-12	Analyst : JB
Sample Amount : 30.41 g	Instrument ID : SV115.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 89
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	19.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
206-44-0	Fluoranthene	ND	110	21.	U
91-20-3	Naphthalene	ND	180	22.	U
56-55-3	Benzo(a)anthracene	ND	110	21.	U
50-32-8	Benzo(a)pyrene	ND	150	45.	U
205-99-2	Benzo(b)fluoranthene	ND	110	31.	U
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U
218-01-9	Chrysene	ND	110	19.	U
208-96-8	Acenaphthylene	ND	150	28.	U
120-12-7	Anthracene	ND	110	36.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	180	18.	U
85-01-8	Phenanthrene	ND	110	22.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	150	26.	U
129-00-0	Pyrene	ND	110	18.	U
91-57-6	2-Methylnaphthalene	ND	220	22.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-05	Date Collected : 01/07/16 07:55
Client ID : SB-11 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 15:44
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-05	Analyst : JB
Sample Amount : 30.66 g	Instrument ID : SV115.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 79
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	Results	ug/Kg		Qualifier
			RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
206-44-0	Fluoranthene	ND	120	24.	U
91-20-3	Naphthalene	ND	200	25.	U
56-55-3	Benzo(a)anthracene	ND	120	23.	U
50-32-8	Benzo(a)pyrene	ND	160	50.	U
205-99-2	Benzo(b)fluoranthene	ND	120	34.	U
207-08-9	Benzo(k)fluoranthene	ND	120	33.	U
218-01-9	Chrysene	ND	120	21.	U
208-96-8	Acenaphthylene	ND	160	32.	U
120-12-7	Anthracene	ND	120	40.	U
191-24-2	Benzo(ghi)perylene	ND	160	24.	U
86-73-7	Fluorene	ND	200	20.	U
85-01-8	Phenanthrene	ND	120	25.	U
53-70-3	Dibenzo(a,h)anthracene	ND	120	24.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	160	29.	U
129-00-0	Pyrene	ND	120	20.	U
91-57-6	2-Methylnaphthalene	ND	250	25.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1600380-13
Client ID : SB-12 (6-8)
Sample Location : QUEENS, NY
Sample Matrix : SOIL
Analytical Method : 1,8270D
Lab File ID : 00380-13
Sample Amount : 30.74 g
Extraction Method : EPA 3546
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1600380
Project Number: 12292
Date Collected : 01/11/16 09:45
Date Received : 01/11/16
Date Analyzed : 01/14/16 15:19
Date Extracted : 01/13/16
Dilution Factor : 1
Analyst : JB
Instrument ID : SV115.1
GC Column : RTX-5
%Solids : 75
Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	170	22.	U
91-58-7	2-Chloronaphthalene	ND	220	22.	U
206-44-0	Fluoranthene	100	130	25.	J
91-20-3	Naphthalene	ND	220	26.	U
56-55-3	Benzo(a)anthracene	61	130	24.	J
50-32-8	Benzo(a)pyrene	ND	170	53.	U
205-99-2	Benzo(b)fluoranthene	59	130	36.	J
207-08-9	Benzo(k)fluoranthene	ND	130	35.	U
218-01-9	Chrysene	50	130	22.	J
208-96-8	Acenaphthylene	ND	170	33.	U
120-12-7	Anthracene	ND	130	42.	U
191-24-2	Benzo(ghi)perylene	ND	170	26.	U
86-73-7	Fluorene	ND	220	21.	U
85-01-8	Phenanthrene	28	130	26.	J
53-70-3	Dibenzo(a,h)anthracene	ND	130	25.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	30	170	30.	J
129-00-0	Pyrene	83	130	22.	J
91-57-6	2-Methylnaphthalene	ND	260	26.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600380-07
 Client ID : SB-13 (6-8)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00380-07
 Sample Amount : 30.16 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600380
 Project Number: 12292
 Date Collected : 01/07/16 10:05
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 16:37
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 81
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
206-44-0	Fluoranthene	ND	120	24.	U
91-20-3	Naphthalene	ND	200	25.	U
56-55-3	Benzo(a)anthracene	ND	120	23.	U
50-32-8	Benzo(a)pyrene	ND	160	50.	U
205-99-2	Benzo(b)fluoranthene	ND	120	34.	U
207-08-9	Benzo(k)fluoranthene	ND	120	33.	U
218-01-9	Chrysene	ND	120	21.	U
208-96-8	Acenaphthylene	ND	160	32.	U
120-12-7	Anthracene	ND	120	40.	U
191-24-2	Benzo(ghi)perylene	ND	160	24.	U
86-73-7	Fluorene	ND	200	20.	U
85-01-8	Phenanthrene	ND	120	25.	U
53-70-3	Dibenzo(a,h)anthracene	ND	120	24.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	160	29.	U
129-00-0	Pyrene	ND	120	20.	U
91-57-6	2-Methylnaphthalene	ND	250	25.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-04	Date Collected : 01/06/16 13:00
Client ID : FIELD BLANK-2	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/09/16 20:43
Sample Matrix : WATER	Date Extracted : 01/08/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-04	Analyst : JB
Sample Amount : 1000 ml	Instrument ID : SV109.1
Extraction Method : EPA 3510C	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	2.0	0.59	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
118-74-1	Hexachlorobenzene	ND	2.0	0.58	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
91-58-7	2-Chloronaphthalene	ND	2.0	0.64	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
206-44-0	Fluoranthene	ND	2.0	0.57	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
87-68-3	Hexachlorobutadiene	ND	2.0	0.66	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
67-72-1	Hexachloroethane	ND	2.0	0.68	U
78-59-1	Isophorone	ND	5.0	0.60	U
91-20-3	Naphthalene	ND	2.0	0.68	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600380-04	Date Collected : 01/06/16 13:00
Client ID : FIELD BLANK-2	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/09/16 20:43
Sample Matrix : WATER	Date Extracted : 01/08/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00380-04	Analyst : JB
Sample Amount : 1000 ml	Instrument ID : SV109.1
Extraction Method : EPA 3510C	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
56-55-3	Benzo(a)anthracene	ND	2.0	0.61	U
50-32-8	Benzo(a)pyrene	ND	2.0	0.54	U
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.64	U
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.60	U
218-01-9	Chrysene	ND	2.0	0.54	U
208-96-8	Acenaphthylene	ND	2.0	0.66	U
120-12-7	Anthracene	ND	2.0	0.64	U
191-24-2	Benzo(ghi)perylene	ND	2.0	0.61	U
86-73-7	Fluorene	ND	2.0	0.62	U
85-01-8	Phenanthrene	ND	2.0	0.61	U
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.55	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	2.0	0.71	U
129-00-0	Pyrene	ND	2.0	0.57	U
92-52-4	Biphenyl	ND	2.0	0.76	U
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600380-04
 Client ID : FIELD BLANK-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D
 Lab File ID : 00380-04
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600380
 Project Number: 12292
 Date Collected : 01/06/16 13:00
 Date Received : 01/06/16
 Date Analyzed : 01/09/16 20:43
 Date Extracted : 01/08/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV109.I
 GC Column : RTX-5
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	2.0	0.66	U
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
87-86-5	Pentachlorophenol	ND	10	3.4	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-08	Date Collected : 01/07/16 10:35
Client ID : SB-1 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 22:55
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.313g	%Solids : 81
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	2800	9.5	1.9	
7440-36-0	Antimony, Total	ND	4.7	0.76	U
7440-38-2	Arsenic, Total	3.2	0.95	0.19	
7440-39-3	Barium, Total	14	0.95	0.28	
7440-41-7	Beryllium, Total	0.12	0.47	0.10	J
7440-43-9	Cadmium, Total	ND	0.95	0.07	U
7440-70-2	Calcium, Total	260	9.5	2.8	
7440-47-3	Chromium, Total	8.2	0.95	0.19	
7440-48-4	Cobalt, Total	2.9	1.9	0.47	
7440-50-8	Copper, Total	7.8	0.95	0.19	
7439-89-6	Iron, Total	14000	4.7	1.9	
7439-92-1	Lead, Total	ND	4.7	0.19	U
7439-95-4	Magnesium, Total	950	9.5	0.95	
7439-96-5	Manganese, Total	210	0.95	0.19	
7440-02-0	Nickel, Total	5.9	2.4	0.38	
7440-09-7	Potassium, Total	310	240	38.	
7782-49-2	Selenium, Total	ND	1.9	0.28	U
7440-22-4	Silver, Total	ND	0.95	0.19	U
7440-23-5	Sodium, Total	38	190	28.	J
7440-28-0	Thallium, Total	ND	1.9	0.38	U
7440-62-2	Vanadium, Total	10	0.95	0.10	
7440-66-6	Zinc, Total	9.8	4.7	0.66	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-08	Date Collected : 01/07/16 10:35
Client ID : SB-1 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:35
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 81
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.08	0.02	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-11	Date Collected : 01/11/16 08:30
Client ID : SB-2 (6-8)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:02
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.254g	%Solids : 96
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	5500	8.3	1.6	
7440-36-0	Antimony, Total	ND	4.1	0.66	U
7440-38-2	Arsenic, Total	1.7	0.83	0.16	
7440-39-3	Barium, Total	26	0.83	0.25	
7440-41-7	Beryllium, Total	0.26	0.41	0.08	J
7440-43-9	Cadmium, Total	ND	0.83	0.06	U
7440-70-2	Calcium, Total	450	8.3	2.5	
7440-47-3	Chromium, Total	15	0.83	0.16	
7440-48-4	Cobalt, Total	5.1	1.6	0.41	
7440-50-8	Copper, Total	12	0.83	0.16	
7439-89-6	Iron, Total	18000	4.1	1.6	
7439-92-1	Lead, Total	ND	4.1	0.16	U
7439-95-4	Magnesium, Total	1400	8.3	0.83	
7439-96-5	Manganese, Total	350	0.83	0.16	
7440-02-0	Nickel, Total	13	2.1	0.33	
7440-09-7	Potassium, Total	560	210	33.	
7782-49-2	Selenium, Total	ND	1.6	0.25	U
7440-22-4	Silver, Total	ND	0.83	0.16	U
7440-23-5	Sodium, Total	100	160	25.	J
7440-28-0	Thallium, Total	ND	1.6	0.33	U
7440-62-2	Vanadium, Total	21	0.83	0.08	
7440-66-6	Zinc, Total	17	4.1	0.58	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600380-11 Client ID : SB-2 (6-8) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4011216A.pcl Sample Amount : 0.381g Digestion Method : EPA 7471B	Lab Number : L1600380 Project Number : 12292 Date Collected : 01/11/16 08:30 Date Received : 01/11/16 Date Analyzed : 01/12/16 13:18 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 96 Date Digested : 01/12/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.05	0.07	0.01	J



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-02	Date Collected : 01/06/16 11:10
Client ID : SB-3 (6-8)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 20:10
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.281g	%Solids : 87
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	14000	9.0	1.8	J
7440-36-0	Antimony, Total	3.5	4.5	0.72	J
7440-38-2	Arsenic, Total	11	0.90	0.18	
7440-39-3	Barium, Total	43	0.90	0.27	
7440-41-7	Beryllium, Total	0.46	0.45	0.09	
7440-43-9	Cadmium, Total	ND	0.90	0.06	U
7440-70-2	Calcium, Total	640	9.0	2.7	J
7440-47-3	Chromium, Total	23	0.90	0.18	
7440-48-4	Cobalt, Total	7.2	1.8	0.45	
7440-50-8	Copper, Total	14	0.90	0.18	
7439-89-6	Iron, Total	24000	4.5	1.8	J
7439-92-1	Lead, Total	ND	4.5	0.18	U
7439-95-4	Magnesium, Total	2400	9.0	0.90	
7439-96-5	Manganese, Total	460	0.90	0.18	J
7440-02-0	Nickel, Total	13	2.2	0.36	
7440-09-7	Potassium, Total	640	220	36.	
7782-49-2	Selenium, Total	ND	1.8	0.27	U
7440-22-4	Silver, Total	ND	0.90	0.18	U
7440-23-5	Sodium, Total	55	180	27.	J
7440-28-0	Thallium, Total	ND	1.8	0.36	U
7440-62-2	Vanadium, Total	32	0.90	0.09	
7440-66-6	Zinc, Total	26	4.5	0.63	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-02	Date Collected : 01/06/16 11:10
Client ID : SB-3 (6-8)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 14:08
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 87
Digestion Method : EPA 7471B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.10	0.08	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-03	Date Collected : 01/06/16 11:15
Client ID : SB-3A (6-8) <i>DUP of</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY <i>SB-3(6-8)</i>	Date Analyzed : 01/12/16 20:14
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.278g	%Solids : 93
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	6500	8.4	1.7	J
7440-36-0	Antimony, Total	ND	4.2	0.67	U J
7440-38-2	Arsenic, Total	15	0.84	0.17	
7440-39-3	Barium, Total	44	0.84	0.25	
7440-41-7	Beryllium, Total	0.59	0.42	0.08	
7440-43-9	Cadmium, Total	ND	0.84	0.06	U
7440-70-2	Calcium, Total	320	8.4	2.5	J
7440-47-3	Chromium, Total	17	0.84	0.17	
7440-48-4	Cobalt, Total	9.2	1.7	0.42	
7440-50-8	Copper, Total	20	0.84	0.17	
7439-89-6	Iron, Total	39000	4.2	1.7	J
7439-95-4	Magnesium, Total	1600	8.4	0.84	
7439-96-5	Manganese, Total	1200	0.84	0.17	J
7440-02-0	Nickel, Total	19	2.1	0.34	
7440-09-7	Potassium, Total	560	210	34.	
7782-49-2	Selenium, Total	ND	1.7	0.25	U
7440-22-4	Silver, Total	ND	0.84	0.17	U
7440-23-5	Sodium, Total	39	170	25.	J
7440-28-0	Thallium, Total	ND	1.7	0.34	U
7440-62-2	Vanadium, Total	29	0.84	0.08	
7440-66-6	Zinc, Total	22	4.2	0.59	

John
2/18/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-03	Date Collected : 01/06/16 11:15
Client ID : SB-3A (6-8) <i>DUP of</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY <i>SB-3 (6-8)</i>	Date Analyzed : 01/12/16 22:51
Sample Matrix : SOIL	Dilution Factor : 20
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.278g	%Solids : 93
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-92-1	Lead, Total	ND	42	1.7	U

for
2/8/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-03	Date Collected : 01/06/16 11:15
Client ID : SB-3A (6-8)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 14:09
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.386g	%Solids : 93
Digestion Method : EPA 7471B	Date Digested : 01/07/16

(DUP of SB-3 (6-P))

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.02	0.07	0.02	J

JOP
2/8/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-10	Date Collected : 01/07/16 11:10
Client ID : SB-4 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:03
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.256g	%Solids : 98
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	3200	8.1	1.6	
7440-36-0	Antimony, Total	ND	4.0	0.65	U
7440-38-2	Arsenic, Total	3.2	0.81	0.16	
7440-39-3	Barium, Total	15	0.81	0.24	
7440-41-7	Beryllium, Total	0.17	0.40	0.08	J
7440-43-9	Cadmium, Total	ND	0.81	0.06	U
7440-70-2	Calcium, Total	170	8.1	2.4	
7440-47-3	Chromium, Total	8.7	0.81	0.16	
7440-48-4	Cobalt, Total	2.5	1.6	0.40	
7440-50-8	Copper, Total	7.4	0.81	0.16	
7439-89-6	Iron, Total	13000	4.0	1.6	
7439-92-1	Lead, Total	ND	4.0	0.16	U
7439-95-4	Magnesium, Total	810	8.1	0.81	
7439-96-5	Manganese, Total	250	0.81	0.16	
7440-02-0	Nickel, Total	6.0	2.0	0.32	
7440-09-7	Potassium, Total	280	200	32.	
7782-49-2	Selenium, Total	ND	1.6	0.24	U
7440-22-4	Silver, Total	ND	0.81	0.16	U
7440-23-5	Sodium, Total	ND	160	24.	U
7440-28-0	Thallium, Total	ND	1.6	0.32	U
7440-62-2	Vanadium, Total	11	0.81	0.08	
7440-66-6	Zinc, Total	9.5	4.0	0.57	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-10	Date Collected : 01/07/16 11:10
Client ID : SB-4 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:43
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.385g	%Solids : 98
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.01	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-06	Date Collected : 01/07/16 09:40
Client ID : SB-5 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 22:47
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.306g	%Solids : 80
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	3600	9.6	1.9	
7440-36-0	Antimony, Total	ND	4.8	0.77	U
7440-38-2	Arsenic, Total	4.0	0.96	0.19	
7440-39-3	Barium, Total	12	0.96	0.29	
7440-41-7	Beryllium, Total	0.18	0.48	0.10	J
7440-43-9	Cadmium, Total	ND	0.96	0.07	U
7440-70-2	Calcium, Total	190	9.6	2.9	
7440-47-3	Chromium, Total	9.8	0.96	0.19	
7440-48-4	Cobalt, Total	4.5	1.9	0.48	
7440-50-8	Copper, Total	10	0.96	0.19	
7439-89-6	Iron, Total	18000	4.8	1.9	
7439-95-4	Magnesium, Total	1000	9.6	0.96	
7439-96-5	Manganese, Total	260	0.96	0.19	
7440-02-0	Nickel, Total	8.4	2.4	0.38	
7440-09-7	Potassium, Total	310	240	38.	
7782-49-2	Selenium, Total	ND	1.9	0.29	U
7440-22-4	Silver, Total	ND	0.96	0.19	U
7440-23-5	Sodium, Total	31	190	29.	J
7440-28-0	Thallium, Total	ND	1.9	0.38	U
7440-62-2	Vanadium, Total	15	0.96	0.10	
7440-66-6	Zinc, Total	12	4.8	0.67	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-06	Date Collected : 01/07/16 09:40
Client ID : SB-5 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 14:07
Sample Matrix : SOIL	Dilution Factor : 10
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856169.pdf	Instrument ID : TRACE4
Sample Amount : 1.306g	%Solids : 80
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-92-1	Lead, Total	ND	24	0.96	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-06	Date Collected : 01/07/16 09:40
Client ID : SB-5 (5-7)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:31
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.37g	%Solids : 80
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.09	0.02	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-01	Date Collected : 01/06/16 10:05
Client ID : SB-6 (5-7)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 17:18
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.285g	%Solids : 95
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	3000	8.2	1.6	J
7440-36-0	Antimony, Total	ND	4.1	0.66	U
7440-38-2	Arsenic, Total	5.5	0.82	0.16	
7440-39-3	Barium, Total	19	0.82	0.24	
7440-41-7	Beryllium, Total	0.17	0.41	0.08	J
7440-43-9	Cadmium, Total	ND	0.82	0.06	U
7440-70-2	Calcium, Total	1000	8.2	2.4	J-
7440-47-3	Chromium, Total	10	0.82	0.16	
7440-48-4	Cobalt, Total	4.7	1.6	0.41	
7440-50-8	Copper, Total	13	0.82	0.16	
7439-89-6	Iron, Total	17000	4.1	1.6	J
7439-92-1	Lead, Total	ND	4.1	0.16	U
7439-95-4	Magnesium, Total	750	8.2	0.82	J+
7439-96-5	Manganese, Total	270	0.82	0.16	J
7440-02-0	Nickel, Total	10	2.0	0.33	
7440-09-7	Potassium, Total	260	200	33.	
7782-49-2	Selenium, Total	ND	1.6	0.24	U
7440-22-4	Silver, Total	ND	0.82	0.16	U
7440-23-5	Sodium, Total	100	160	24.	J
7440-28-0	Thallium, Total	ND	1.6	0.33	U
7440-62-2	Vanadium, Total	17	0.82	0.08	
7440-66-6	Zinc, Total	14	4.1	0.57	

John
2/7/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-01	Date Collected : 01/06/16 10:05
Client ID : SB-6 (5-7)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 13:56
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 95
Digestion Method : EPA 7471B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.02	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-09	Date Collected : 01/07/16 10:50
Client ID : SB-9 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 22:59
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.297g	%Solids : 98
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	2900	7.9	1.6	
7440-36-0	Antimony, Total	ND	4.0	0.63	U
7440-38-2	Arsenic, Total	3.4	0.79	0.16	
7440-39-3	Barium, Total	14	0.79	0.24	
7440-41-7	Beryllium, Total	0.15	0.40	0.08	J
7440-43-9	Cadmium, Total	ND	0.79	0.06	U
7440-70-2	Calcium, Total	130	7.9	2.4	
7440-47-3	Chromium, Total	7.2	0.79	0.16	
7440-48-4	Cobalt, Total	3.2	1.6	0.40	
7440-50-8	Copper, Total	6.2	0.79	0.16	
7439-89-6	Iron, Total	15000	4.0	1.6	
7439-95-4	Magnesium, Total	840	7.9	0.79	
7439-96-5	Manganese, Total	330	0.79	0.16	
7440-02-0	Nickel, Total	6.6	2.0	0.32	
7440-09-7	Potassium, Total	270	200	32.	
7782-49-2	Selenium, Total	ND	1.6	0.24	U
7440-22-4	Silver, Total	ND	0.79	0.16	U
7440-23-5	Sodium, Total	ND	160	24.	U
7440-28-0	Thallium, Total	ND	1.6	0.32	U
7440-62-2	Vanadium, Total	12	0.79	0.08	
7440-66-6	Zinc, Total	15	4.0	0.55	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600380-09 Client ID : SB-9 (6-8) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,6010C Lab File ID : WG856169.pdf Sample Amount : 1.297g Digestion Method : EPA 3050B	Lab Number : L1600380 Project Number : 12292 Date Collected : 01/07/16 10:50 Date Received : 01/07/16 Date Analyzed : 01/11/16 14:11 Dilution Factor : 10 Analyst : PS Instrument ID : TRACE4 %Solids : 98 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-92-1	Lead, Total	ND	20	0.79	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-09	Date Collected : 01/07/16 10:50
Client ID : SB-9 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:41
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 98
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.01	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-12	Date Collected : 01/11/16 09:00
Client ID : SB-10 (5-7)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:06
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.258g	%Solids : 89
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	11000	8.9	1.8	
7440-36-0	Antimony, Total	ND	4.5	0.71	U
7440-38-2	Arsenic, Total	2.9	0.89	0.18	
7440-39-3	Barium, Total	44	0.89	0.27	
7440-41-7	Beryllium, Total	0.33	0.45	0.09	J
7440-43-9	Cadmium, Total	ND	0.89	0.06	U
7440-70-2	Calcium, Total	690	8.9	2.7	
7440-47-3	Chromium, Total	20	0.89	0.18	
7440-48-4	Cobalt, Total	7.2	1.8	0.45	
7440-50-8	Copper, Total	16	0.89	0.18	
7439-89-6	Iron, Total	28000	4.5	1.8	
7439-92-1	Lead, Total	ND	4.5	0.18	U
7439-95-4	Magnesium, Total	1700	8.9	0.89	
7439-96-5	Manganese, Total	260	0.89	0.18	
7440-02-0	Nickel, Total	11	2.2	0.36	
7440-09-7	Potassium, Total	440	220	36.	
7782-49-2	Selenium, Total	ND	0.26	1.8	0.27 J U
7440-22-4	Silver, Total	ND	0.89	0.18	U
7440-23-5	Sodium, Total	40	180	27.	J
7440-28-0	Thallium, Total	ND	1.8	0.36	U
7440-62-2	Vanadium, Total	28	0.89	0.09	
7440-66-6	Zinc, Total	26	4.5	0.62	

JH 1/27/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-12	Date Collected : 01/11/16 09:00
Client ID : SB-10 (5-7)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 13:20
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4011216A.pcl	Instrument ID : FIMS4
Sample Amount : 0.381g	%Solids : 89
Digestion Method : EPA 7471B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.03	0.07	0.02	J



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-05	Date Collected : 01/07/16 07:55
Client ID : SB-11 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 22:43
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.279g	%Solids : 79
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	2700	9.8	2.0	
7440-36-0	Antimony, Total	ND	4.9	0.79	U
7440-38-2	Arsenic, Total	3.8	0.98	0.20	
7440-39-3	Barium, Total	23	0.98	0.30	
7440-41-7	Beryllium, Total	0.17	0.49	0.10	J
7440-43-9	Cadmium, Total	ND	0.98	0.07	U
7440-70-2	Calcium, Total	310	9.8	3.0	
7440-47-3	Chromium, Total	7.8	0.98	0.20	
7440-48-4	Cobalt, Total	2.8	2.0	0.49	
7440-50-8	Copper, Total	7.6	0.98	0.20	
7439-89-6	Iron, Total	17000	4.9	2.0	
7439-92-1	Lead, Total	ND	4.9	0.20	U
7439-95-4	Magnesium, Total	690	9.8	0.98	
7439-96-5	Manganese, Total	240	0.98	0.20	
7440-02-0	Nickel, Total	5.3	2.5	0.39	
7440-09-7	Potassium, Total	310	250	39.	
7782-49-2	Selenium, Total	ND	2.0	0.30	U
7440-22-4	Silver, Total	ND	0.98	0.20	U
7440-23-5	Sodium, Total	74	200	30.	J
7440-28-0	Thallium, Total	ND	2.0	0.39	U
7440-62-2	Vanadium, Total	12	0.98	0.10	
7440-66-6	Zinc, Total	12	4.9	0.69	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-05	Date Collected : 01/07/16 07:55
Client ID : SB-11 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:23
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.375g	%Solids : 79
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.08	0.02	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-13	Date Collected : 01/11/16 09:45
Client ID : SB-12 (6-8)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:10
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.296g	%Solids : 75
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	8400	10	2.0	
7440-36-0	Antimony, Total	ND	5.1	0.82	U
7440-38-2	Arsenic, Total	3.0	1.0	0.20	
7440-39-3	Barium, Total	61	1.0	0.31	
7440-41-7	Beryllium, Total	0.51	0.51	0.10	
7440-43-9	Cadmium, Total	ND	1.0	0.07	U
7440-70-2	Calcium, Total	490	10	3.1	
7440-47-3	Chromium, Total	14	1.0	0.20	
7440-48-4	Cobalt, Total	4.1	2.0	0.51	
7440-50-8	Copper, Total	11	1.0	0.20	
7439-89-6	Iron, Total	16000	5.1	2.0	
7439-92-1	Lead, Total	38	5.1	0.20	
7439-95-4	Magnesium, Total	950	10	1.0	
7439-96-5	Manganese, Total	670	1.0	0.20	
7440-02-0	Nickel, Total	6.7	2.6	0.41	
7440-09-7	Potassium, Total	250	260	41.	J
7782-49-2	Selenium, Total	0.36 ND	2.0	0.31	J U
7440-22-4	Silver, Total	ND	1.0	0.20	U
7440-23-5	Sodium, Total	ND	200	31.	U
7440-28-0	Thallium, Total	ND	2.0	0.41	U
7440-62-2	Vanadium, Total	19	1.0	0.10	
7440-66-6	Zinc, Total	37	5.1	0.72	

JH
2/7/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-13	Date Collected : 01/11/16 09:45
Client ID : SB-12 (6-8)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 13:22
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4011216A.pcl	Instrument ID : FIMS4
Sample Amount : 0.371g	%Solids : 75
Digestion Method : EPA 7471B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.18	0.09	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-07	Date Collected : 01/07/16 10:05
Client ID : SB-13 (6-8)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 22:51
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.286g	%Solids : 81
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	7900	9.6	1.9	
7440-36-0	Antimony, Total	ND	4.8	0.77	U
7440-38-2	Arsenic, Total	5.0	0.96	0.19	
7440-39-3	Barium, Total	19	0.96	0.29	
7440-41-7	Beryllium, Total	0.21	0.48	0.10	J
7440-43-9	Cadmium, Total	ND	0.96	0.07	U
7440-70-2	Calcium, Total	320	9.6	2.9	
7440-47-3	Chromium, Total	15	0.96	0.19	
7440-48-4	Cobalt, Total	6.2	1.9	0.48	
7440-50-8	Copper, Total	12	0.96	0.19	
7439-89-6	Iron, Total	20000	4.8	1.9	
7439-92-1	Lead, Total	ND	4.8	0.19	U
7439-95-4	Magnesium, Total	1800	9.6	0.96	
7439-96-5	Manganese, Total	240	0.96	0.19	
7440-02-0	Nickel, Total	11	2.4	0.38	
7440-09-7	Potassium, Total	560	240	38.	
7782-49-2	Selenium, Total	ND	1.9	0.29	U
7440-22-4	Silver, Total	ND	0.96	0.19	U
7440-23-5	Sodium, Total	43	190	29.	J
7440-28-0	Thallium, Total	ND	1.9	0.38	U
7440-62-2	Vanadium, Total	21	0.96	0.10	
7440-66-6	Zinc, Total	22	4.8	0.67	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600380-07 Client ID : SB-13 (6-8) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4010816A.pcl Sample Amount : 0.372g Digestion Method : EPA 7471B	Lab Number : L1600380 Project Number : 12292 Date Collected : 01/07/16 10:05 Date Received : 01/07/16 Date Analyzed : 01/08/16 12:33 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 81 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.08	0.02	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-04	Date Collected : 01/06/16 13:00
Client ID : FIELD BLANK-2	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 21:37
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/07/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.10	0.020	U
7440-36-0	Antimony, Total	ND	0.0500	0.0080	U
7440-38-2	Arsenic, Total	ND	0.0028	0.0050	J U
7440-39-3	Barium, Total	ND	0.0100	0.0030	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0010	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0007	U
7440-70-2	Calcium, Total	0.082	0.10	0.030	J
7440-47-3	Chromium, Total	ND	0.010	0.0020	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0050	U
7440-50-8	Copper, Total	ND	0.0100	0.0020	U
7439-89-6	Iron, Total	ND	0.050	0.020	U
7439-92-1	Lead, Total	ND	0.0100	0.0020	U
7439-95-4	Magnesium, Total	ND	0.10	0.010	U
7439-96-5	Manganese, Total	ND	0.0100	0.0020	U
7440-02-0	Nickel, Total	ND	0.0250	0.0040	U
7440-09-7	Potassium, Total	ND	2.5	0.40	U
7782-49-2	Selenium, Total	ND	0.0100	0.0030	U
7440-22-4	Silver, Total	ND	0.0070	0.0020	U
7440-23-5	Sodium, Total	ND	2.0	0.30	U
7440-28-0	Thallium, Total	ND	0.0200	0.0040	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0010	U
7440-66-6	Zinc, Total	ND	0.0500	0.0070	U

JSP
2/7/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600380
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600380-04	Date Collected : 01/06/16 13:00
Client ID : FIELD BLANK-2	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 19:49
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : EA
Lab File ID : Hg4010716C.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/07/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U



PART 2
VOLATILES (SDG L1600381)
Appendix C
Data Summary Form I's
With Qualifications

Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-13
 Client ID : SB-1 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A21
 Sample Amount : 5.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 10:30
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 19:28
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	11	1.2	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.09	U
67-66-3	Chloroform	ND	1.6	0.40	U
56-23-5	Carbon tetrachloride	ND	1.1	0.23	U
78-87-5	1,2-Dichloropropane	ND	3.8	0.25	U
124-48-1	Dibromochloromethane	ND	1.1	0.16	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.33	U
127-18-4	Tetrachloroethene	ND	1.1	0.15	U
108-90-7	Chlorobenzene	ND	1.1	0.38	U
75-69-4	Trichlorofluoromethane	ND	5.4	0.42	U UJ
107-06-2	1,2-Dichloroethane	ND	1.1	0.12	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.12	U
75-27-4	Bromodichloromethane	ND	1.1	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.13	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.13	U
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.13	U
563-58-6	1,1-Dichloropropene	ND	5.4	0.15	U
75-25-2	Bromoform	ND	4.3	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.11	U
71-43-2	Benzene	ND	1.1	0.13	U
108-88-3	Toluene	ND	1.6	0.21	U UJ
100-41-4	Ethylbenzene	ND	1.1	0.14	U
74-87-3	Chloromethane	ND	5.4	0.32	U
74-83-9	Bromomethane	ND	2.2	0.36	U UJ
75-01-4	Vinyl chloride	ND	2.2	0.13	U UJ
75-00-3	Chloroethane	ND	2.2	0.34	U UJ
75-35-4	1,1-Dichloroethene	ND	1.1	0.28	U

JSP
2/17/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-13	Date Collected : 01/07/16 10:30
Client ID : SB-1 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 19:28
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A21	Instrument ID : CHARLIE.I
Sample Amount : 5.3 g	GC Column : RTX-VMS
Level : LOW	%Solids : 87
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.23	U
79-01-6	Trichloroethene	ND	1.1	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.16	U
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.15	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.09	U
179601-23-1	p/m-Xylene	ND	2.2	0.21	U
95-47-6	o-Xylene	ND	2.2	0.18	U
1330-20-7	Xylenes, Total	ND	2.2	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.15	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.15	U
74-95-3	Dibromomethane	ND	11	0.18	U
100-42-5	Styrene	ND	2.2	0.43	U
75-71-8	Dichlorodifluoromethane	ND	11	0.21	U UJ
67-64-1	Acetone	ND	11	1.1	U
75-15-0	Carbon disulfide	ND	11	1.2	U
78-93-3	2-Butanone	ND	11	0.29	U UJ
108-05-4	Vinyl acetate	ND	11	0.14	U UJ
108-10-1	4-Methyl-2-pentanone	ND	11	0.26	U
96-18-4	1,2,3-Trichloropropane	ND	11	0.18	U
591-78-6	2-Hexanone	ND	11	0.72	U UJ
74-97-5	Bromochloromethane	ND	5.4	0.30	U
594-20-7	2,2-Dichloropropane	ND	5.4	0.24	U
106-93-4	1,2-Dibromoethane	ND	4.3	0.19	U
142-28-9	1,3-Dichloropropane	ND	5.4	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.34	U
108-86-1	Bromobenzene	ND	5.4	0.22	U

JOP 2/18/16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-13	Date Collected	: 01/07/16 10:30
Client ID	: SB-1 (0-2)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 19:28
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A21	Instrument ID	: CHARLIE.I
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.1	0.12	U
135-98-8	sec-Butylbenzene	ND	1.1	0.13	U
98-06-6	tert-Butylbenzene	ND	5.4	0.15	U
95-49-8	o-Chlorotoluene	ND	5.4	0.17	U
106-43-4	p-Chlorotoluene	ND	5.4	0.14	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	0.43	U
87-68-3	Hexachlorobutadiene	ND	5.4	0.25	U
98-82-8	Isopropylbenzene	ND	1.1	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.14	U
91-20-3	Naphthalene	ND	5.4	0.15	U
107-13-1	Acrylonitrile	ND	11	0.56	U
103-65-1	n-Propylbenzene	ND	1.1	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.16	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.20	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	0.15	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	0.15	U
123-91-1	1,4-Dioxane	ND	110	16.	U R
105-05-5	p-Diethylbenzene	ND	4.3	0.17	U
622-96-8	p-Ethyltoluene	ND	4.3	0.13	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.3	0.14	U
60-29-7	Ethyl ether	ND	5.4	0.28	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.4	0.42	U UJ

JAN 21/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-18	Date Collected : 01/11/16 08:15
Client ID : SB-2 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/18/16 09:45
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BN
Lab File ID : 0118A07	Instrument ID : VOA110.I
Sample Amount : 5.1 g	GC Column : RTX-VMS
Level : LOW	%Solids : 93
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	10	1.2	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.09	U
67-66-3	Chloroform	ND	1.6	0.39	U
56-23-5	Carbon tetrachloride	ND	1.0	0.22	U
78-87-5	1,2-Dichloropropane	ND	3.7	0.24	U
124-48-1	Dibromochloromethane	ND	1.0	0.16	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.32	U
127-18-4	Tetrachloroethene	ND	1.0	0.15	U
108-90-7	Chlorobenzene	ND	1.0	0.37	U
75-69-4	Trichlorofluoromethane	ND	5.3	0.41	U
107-06-2	1,2-Dichloroethane	ND	1.0	0.12	U
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.12	U
75-27-4	Bromodichloromethane	ND	1.0	0.18	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.13	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.12	U
542-75-6	1,3-Dichloropropene, Total	ND	1.0	0.12	U
563-58-6	1,1-Dichloropropene	ND	5.3	0.15	U
75-25-2	Bromoform	ND	4.2	0.25	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.11	U
71-43-2	Benzene	ND	1.0	0.12	U
108-88-3	Toluene	0.70	1.6	0.21	J
100-41-4	Ethylbenzene	ND	1.0	0.13	U
74-87-3	Chloromethane	ND	5.3	0.31	U
74-83-9	Bromomethane	ND	2.1	0.36	U - UJ
75-01-4	Vinyl chloride	ND	2.1	0.12	U - UJ
75-00-3	Chloroethane	ND	2.1	0.33	U
75-35-4	1,1-Dichloroethene	ND	1.0	0.28	U



JON 2/18/16

Form 1 Volatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1600381-18
Client ID : SB-2 (0-2)
Sample Location : QUEENS, NY
Sample Matrix : SOIL
Analytical Method : 1,8260C
Lab File ID : 0118A07
Sample Amount : 5.1 g
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1600381
Project Number : 12292
Date Collected : 01/11/16 08:15
Date Received : 01/11/16
Date Analyzed : 01/18/16 09:45
Dilution Factor : 1
Analyst : BN
Instrument ID : VOA110.I
GC Column : RTX-VMS
%Solids : 93
Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.22	U
79-01-6	Trichloroethene	ND	1.0	0.13	U
95-50-1	1,2-Dichlorobenzene	ND	5.3	0.16	U
541-73-1	1,3-Dichlorobenzene	ND	5.3	0.14	U
106-46-7	1,4-Dichlorobenzene	ND	5.3	0.15	U
1634-04-4	Methyl tert butyl ether	ND	2.1	0.09	U
179601-23-1	p/m-Xylene	ND	2.1	0.21	U
95-47-6	o-Xylene	ND	2.1	0.18	U
1330-20-7	Xylenes, Total	ND	2.1	0.18	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.15	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.15	U
74-95-3	Dibromomethane	ND	10	0.17	U
100-42-5	Styrene	ND	2.1	0.42	U
75-71-8	Dichlorodifluoromethane	ND	10	0.20	U
67-64-1	Acetone	ND	10	1.1	U
75-15-0	Carbon disulfide	ND	10	1.2	U
78-93-3	2-Butanone	ND	10	0.29	U
108-05-4	Vinyl acetate	ND	10	0.14	U
108-10-1	4-Methyl-2-pentanone	ND	10	0.26	U
96-18-4	1,2,3-Trichloropropane	ND	10	0.17	U
591-78-6	2-Hexanone	ND	10	0.70	U
74-97-5	Bromochloromethane	ND	5.3	0.29	U
594-20-7	2,2-Dichloropropane	ND	5.3	0.24	U
106-93-4	1,2-Dibromoethane	ND	4.2	0.18	U
142-28-9	1,3-Dichloropropane	ND	5.3	0.15	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.34	U
108-86-1	Bromobenzene	ND	5.3	0.22	U

UJ



Jan 21/16

Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-18
 Client ID : SB-2 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0118A07
 Sample Amount : 5.1 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/11/16 08:15
 Date Received : 01/11/16
 Date Analyzed : 01/18/16 09:45
 Dilution Factor : 1
 Analyst : BN
 Instrument ID : VOA110.1
 GC Column : RTX-VMS
 %Solids : 93
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.0	0.12	U
135-98-8	sec-Butylbenzene	ND	1.0	0.13	U
98-06-6	tert-Butylbenzene	ND	5.3	0.14	U
95-49-8	o-Chlorotoluene	ND	5.3	0.17	U
106-43-4	p-Chlorotoluene	ND	5.3	0.14	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.3	0.42	U <i>UJ</i>
87-68-3	Hexachlorobutadiene	ND	5.3	0.24	U
98-82-8	Isopropylbenzene	ND	1.0	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.13	U
91-20-3	Naphthalene	ND	5.3	0.15	U
107-13-1	Acrylonitrile	ND	10	0.54	U
103-65-1	n-Propylbenzene	ND	1.0	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	0.16	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	0.19	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	0.15	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	0.15	U
123-91-1	1,4-Dioxane	ND	100	15.	U <i>R</i>
105-05-5	p-Diethylbenzene	ND	4.2	0.17	U
622-96-8	p-Ethyltoluene	ND	4.2	0.13	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.2	0.14	U
60-29-7	Ethyl ether	ND	5.3	0.28	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.3	0.42	U

BN
2/18/16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-03	Date Collected	: 01/06/16 11:00
Client ID	: SB-3 (0-2)	Date Received	: 01/06/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 15:58
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A13	Instrument ID	: CHARLIE.I
Sample Amount	: 5.8 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 95
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	9.1	1.0	U
75-34-3	1,1-Dichloroethane	ND	1.4	0.08	U
67-66-3	Chloroform	ND	1.4	0.34	U
56-23-5	Carbon tetrachloride	ND	0.91	0.19	U
78-87-5	1,2-Dichloropropane	ND	3.2	0.21	U
124-48-1	Dibromochloromethane	ND	0.91	0.14	U
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.28	U
127-18-4	Tetrachloroethene	ND	0.91	0.13	U
108-90-7	Chlorobenzene	ND	0.91	0.32	U
75-69-4	Trichlorofluoromethane	ND	4.5	0.35	U UJ
107-06-2	1,2-Dichloroethane	ND	0.91	0.10	U UJ
71-55-6	1,1,1-Trichloroethane	ND	0.91	0.10	U
75-27-4	Bromodichloromethane	ND	0.91	0.16	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.91	0.11	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.91	0.11	U
542-75-6	1,3-Dichloropropene, Total	ND	0.91	0.11	U
563-58-6	1,1-Dichloropropene	ND	4.5	0.13	U
75-25-2	Bromoform	ND	3.6	0.21	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.91	0.09	U
71-43-2	Benzene	ND	0.91	0.11	U
108-88-3	Toluene	6.4	1.4	0.18	J-
100-41-4	Ethylbenzene	ND	0.91	0.12	U
74-87-3	Chloromethane	ND	4.5	0.27	U
74-83-9	Bromomethane	ND	1.8	0.31	U UJ
75-01-4	Vinyl chloride	ND	1.8	0.11	U UJ
75-00-3	Chloroethane	ND	1.8	0.29	U UJ
75-35-4	1,1-Dichloroethene	ND	0.91	0.24	U



for 2/17/16

Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-03
 Client ID : SB-3 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A13
 Sample Amount : 5.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 11:00
 Date Received : 01/06/16
 Date Analyzed : 01/16/16 15:58
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 95
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.19	U
79-01-6	Trichloroethene	ND	0.91	0.11	U
95-50-1	1,2-Dichlorobenzene	ND	4.5	0.14	U
541-73-1	1,3-Dichlorobenzene	ND	4.5	0.12	U
106-46-7	1,4-Dichlorobenzene	ND	4.5	0.12	U
1634-04-4	Methyl tert butyl ether	ND	1.8	0.08	U
179601-23-1	p/m-Xylene	ND	1.8	0.18	U
95-47-6	o-Xylene	ND	1.8	0.16	U
1330-20-7	Xylenes, Total	ND	1.8	0.16	U
156-59-2	cis-1,2-Dichloroethene	ND	0.91	0.13	U
540-59-0	1,2-Dichloroethene, Total	ND	0.91	0.13	U
74-95-3	Dibromomethane	ND	9.1	0.15	U
100-42-5	Styrene	ND	1.8	0.36	U
75-71-8	Dichlorodifluoromethane	ND	9.1	0.17	U UJ
67-64-1	Acetone	8.7	9.1	0.94	J
75-15-0	Carbon disulfide	ND	9.1	1.0	U
78-93-3	2-Butanone	ND	9.1	0.25	U UJ
108-05-4	Vinyl acetate	ND	9.1	0.12	U UJ
108-10-1	4-Methyl-2-pentanone	ND	9.1	0.22	U
96-18-4	1,2,3-Trichloropropane	ND	9.1	0.15	U
591-78-6	2-Hexanone	ND	9.1	0.60	U UJ
74-97-5	Bromochloromethane	ND	4.5	0.25	U
594-20-7	2,2-Dichloropropane	ND	4.5	0.20	U
106-93-4	1,2-Dibromoethane	ND	3.6	0.16	U
142-28-9	1,3-Dichloropropane	ND	4.5	0.13	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.91	0.29	U
108-86-1	Bromobenzene	ND	4.5	0.19	U

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Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-03
 Client ID : SB-3 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A13
 Sample Amount : 5.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 11:00
 Date Received : 01/06/16
 Date Analyzed : 01/16/16 15:58
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 95
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	0.91	0.10	U
135-98-8	sec-Butylbenzene	ND	0.91	0.11	U
98-06-6	tert-Butylbenzene	ND	4.5	0.12	U
95-49-8	o-Chlorotoluene	ND	4.5	0.14	U
106-43-4	p-Chlorotoluene	ND	4.5	0.12	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.5	0.36	U
87-68-3	Hexachlorobutadiene	ND	4.5	0.21	U
98-82-8	Isopropylbenzene	ND	0.91	0.09	U
99-87-6	p-Isopropyltoluene	ND	0.91	0.11	U
91-20-3	Naphthalene	ND	4.5	0.12	U
107-13-1	Acrylonitrile	ND	9.1	0.47	U
103-65-1	n-Propylbenzene	ND	0.91	0.10	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	0.13	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	0.16	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.5	0.13	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.5	0.13	U
123-91-1	1,4-Dioxane	ND	91	13.	U R
105-05-5	p-Diethylbenzene	ND	3.6	0.14	U
622-96-8	p-Ethyltoluene	ND	3.6	0.11	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.6	0.12	U
60-29-7	Ethyl ether	ND	4.5	0.24	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.5	0.36	U UJ

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 2/7/16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-04	Date Collected	: 01/06/16 11:05
Client ID	: SB-3A (0-2) <i>C DUP 08</i>	Date Received	: 01/06/16
Sample Location	: QUEENS, NY <i>SB-3(0-2)</i>	Date Analyzed	: 01/16/16 16:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A14	Instrument ID	: CHARLIE.I
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 82
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12	1.3	U
75-34-3	1,1-Dichloroethane	ND	1.7	0.10	U
67-66-3	Chloroform	ND	1.7	0.42	U
56-23-5	Carbon tetrachloride	ND	1.2	0.24	U
78-87-5	1,2-Dichloropropane	ND	4.0	0.26	U
124-48-1	Dibromochloromethane	ND	1.2	0.18	U
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.35	U
127-18-4	Tetrachloroethene	ND	1.2	0.16	U
108-90-7	Chlorobenzene	ND	1.2	0.40	U
75-69-4	Trichlorofluoromethane	ND	5.8	0.45	U UJ
107-06-2	1,2-Dichloroethane	ND	1.2	0.13	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.2	0.13	U
75-27-4	Bromodichloromethane	ND	1.2	0.20	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	1.2	0.14	U
563-58-6	1,1-Dichloropropene	ND	5.8	0.16	U
75-25-2	Bromoform	ND	4.6	0.27	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.12	U
71-43-2	Benzene	ND	1.2	0.14	U
108-88-3	Toluene	14	1.7	0.22	J-
100-41-4	Ethylbenzene	ND	1.2	0.15	U
74-87-3	Chloromethane	ND	5.8	0.34	U
74-83-9	Bromomethane	ND	2.3	0.39	U UJ
75-01-4	Vinyl chloride	ND	2.3	0.14	U UJ
75-00-3	Chloroethane	ND	2.3	0.36	U UJ
75-35-4	1,1-Dichloroethene	ND	1.2	0.30	U



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Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-04	Date Collected	: 01/06/16 11:05
Client ID	: SB-3A (0-2) <i>(DUP 06 SB-30-2)</i>	Date Received	: 01/06/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 16:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A14	Instrument ID	: CHARLIE.I
Sample Amount	: 5.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 82
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.24	U
79-01-6	Trichloroethene	ND	1.2	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.18	U
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.3	0.10	U
179601-23-1	p/m-Xylene	ND	2.3	0.23	U
95-47-6	o-Xylene	ND	2.3	0.20	U
1330-20-7	Xylenes, Total	ND	2.3	0.20	U
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	1.2	0.16	U
74-95-3	Dibromomethane	ND	12	0.19	U
100-42-5	Styrene	ND	2.3	0.46	U
75-71-8	Dichlorodifluoromethane	ND	12	0.22	U <i>UJ</i>
67-64-1	Acetone	6.4	12	1.2	J
75-15-0	Carbon disulfide	ND	12	1.3	U
78-93-3	2-Butanone	ND	12	0.31	U <i>UJ</i>
108-05-4	Vinyl acetate	ND	12	0.15	U <i>UJ</i>
108-10-1	4-Methyl-2-pentanone	ND	12	0.28	U
96-18-4	1,2,3-Trichloropropane	ND	12	0.19	U
591-78-6	2-Hexanone	ND	12	0.77	U <i>UJ</i>
74-97-5	Bromochloromethane	ND	5.8	0.32	U
594-20-7	2,2-Dichloropropane	ND	5.8	0.26	U
106-93-4	1,2-Dibromoethane	ND	4.6	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.8	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.2	0.36	U
108-86-1	Bromobenzene	ND	5.8	0.24	U

Jan 21 08 16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-04	Date Collected	: 01/06/16 11:05
Client ID	: SB-3A (0-2) <i>(DUP of SB-3 0-2)</i>	Date Received	: 01/06/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 16:24
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A14	Instrument ID	: CHARLIE.I
Sample Amount	: 5.3 g	GC Column	: RTX-VM5
Level	: LOW	%Solids	: 82
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.2	0.13	U
135-98-8	sec-Butylbenzene	ND	1.2	0.14	U
98-06-6	tert-Butylbenzene	ND	5.8	0.16	U
95-49-8	o-Chlorotoluene	ND	5.8	0.18	U
106-43-4	p-Chlorotoluene	ND	5.8	0.15	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.8	0.46	U
87-68-3	Hexachlorobutadiene	ND	5.8	0.26	U
98-82-8	Isopropylbenzene	ND	1.2	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.14	U
91-20-3	Naphthalene	ND	5.8	0.16	U
107-13-1	Acrylonitrile	ND	12	0.59	U
103-65-1	n-Propylbenzene	ND	1.2	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.21	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.8	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.8	0.16	U
123-91-1	1,4-Dioxane	ND	120	16.	U R
105-05-5	p-Diethylbenzene	ND	4.6	0.18	U
622-96-8	p-Ethyltoluene	ND	4.6	0.14	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.6	0.15	U
60-29-7	Ethyl ether	ND	5.8	0.30	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.8	0.45	U UJ

JGR
2/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-15
 Client ID : SB-4 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A23
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 11:05
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 20:21
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	9.6	1.0	U
75-34-3	1,1-Dichloroethane	ND	1.4	0.08	U
67-66-3	Chloroform	ND	1.4	0.35	U
56-23-5	Carbon tetrachloride	ND	0.96	0.20	U
78-87-5	1,2-Dichloropropane	ND	3.3	0.22	U
124-48-1	Dibromochloromethane	ND	0.96	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.29	U
127-18-4	Tetrachloroethene	ND	0.96	0.13	U
108-90-7	Chlorobenzene	ND	0.96	0.33	U
75-69-4	Trichlorofluoromethane	ND	4.8	0.37	U UJ
107-06-2	1,2-Dichloroethane	ND	0.96	0.11	U UJ
71-55-6	1,1,1-Trichloroethane	ND	0.96	0.10	U
75-27-4	Bromodichloromethane	ND	0.96	0.16	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.96	0.12	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.96	0.11	U
542-75-6	1,3-Dichloropropene, Total	ND	0.96	0.11	U
563-58-6	1,1-Dichloropropene	ND	4.8	0.14	U
75-25-2	Bromoform	ND	3.8	0.22	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.96	0.10	U
71-43-2	Benzene	ND	0.96	0.11	U
108-88-3	Toluene	ND	1.4	0.19	U UJ
100-41-4	Ethylbenzene	ND	0.96	0.12	U
74-87-3	Chloromethane	ND	4.8	0.28	U
74-83-9	Bromomethane	ND	1.9	0.32	U UJ
75-01-4	Vinyl chloride	ND	1.9	0.11	U UJ
75-00-3	Chloroethane	ND	1.9	0.30	U UJ
75-35-4	1,1-Dichloroethene	ND	0.96	0.25	U



JPM 2/17/16

Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-15
 Client ID : SB-4 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A23
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 11:05
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 20:21
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.20	U
79-01-6	Trichloroethene	ND	0.96	0.12	U
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.13	U
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.13	U
1634-04-4	Methyl tert butyl ether	ND	1.9	0.08	U
179601-23-1	p/m-Xylene	ND	1.9	0.19	U
95-47-6	o-Xylene	ND	1.9	0.16	U
1330-20-7	Xylenes, Total	ND	1.9	0.16	U
156-59-2	cis-1,2-Dichloroethene	ND	0.96	0.14	U
540-59-0	1,2-Dichloroethene, Total	ND	0.96	0.14	U
74-95-3	Dibromomethane	ND	9.6	0.16	U
100-42-5	Styrene	ND	1.9	0.38	U
75-71-8	Dichlorodifluoromethane	ND	9.6	0.18	U J
67-64-1	Acetone	3.4	9.6	0.99	J
75-15-0	Carbon disulfide	ND	9.6	1.0	U
78-93-3	2-Butanone	ND	9.6	0.26	U UJ
108-05-4	Vinyl acetate	ND	9.6	0.13	U UJ
108-10-1	4-Methyl-2-pentanone	ND	9.6	0.23	U
96-18-4	1,2,3-Trichloropropane	ND	9.6	0.16	U
591-78-6	2-Hexanone	ND	9.6	0.64	U UJ
74-97-5	Bromochloromethane	ND	4.8	0.26	U
594-20-7	2,2-Dichloropropane	ND	4.8	0.22	U
106-93-4	1,2-Dibromoethane	ND	3.8	0.17	U
142-28-9	1,3-Dichloropropane	ND	4.8	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.96	0.30	U
108-86-1	Bromobenzene	ND	4.8	0.20	U

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 2/8/16



Form 1 Volatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1600381-15
Client ID : SB-4 (0-2)
Sample Location : QUEENS, NY
Sample Matrix : SOIL
Analytical Method : 1,8260C
Lab File ID : 0116A23
Sample Amount : 6.0 g
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1600381
Project Number : 12292
Date Collected : 01/07/16 11:05
Date Received : 01/07/16
Date Analyzed : 01/16/16 20:21
Dilution Factor : 1
Analyst : BS
Instrument ID : CHARLIE.I
GC Column : RTX-VMS
%Solids : 87
Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	0.96	0.11	U
135-98-8	sec-Butylbenzene	ND	0.96	0.12	U
98-06-6	tert-Butylbenzene	ND	4.8	0.13	U
95-49-8	o-Chlorotoluene	ND	4.8	0.15	U
106-43-4	p-Chlorotoluene	ND	4.8	0.13	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	0.38	U
87-68-3	Hexachlorobutadiene	ND	4.8	0.22	U
98-82-8	Isopropylbenzene	ND	0.96	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.96	0.12	U
91-20-3	Naphthalene	ND	4.8	0.13	U
107-13-1	Acrylonitrile	ND	9.6	0.49	U
103-65-1	n-Propylbenzene	ND	0.96	0.10	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.14	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.17	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.14	U
123-91-1	1,4-Dioxane	ND	96	14.	U R
105-05-5	p-Diethylbenzene	ND	3.8	0.15	U
622-96-8	p-Ethyltoluene	ND	3.8	0.12	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.8	0.12	U
60-29-7	Ethyl ether	ND	4.8	0.25	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.8	0.37	U UJ

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Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-16	Date Collected	: 01/07/16 11:15
Client ID	: SB-4 (12-14)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 20:47
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A24	Instrument ID	: CHARLIE.I
Sample Amount	: 4.3 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 98
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12	1.3	U
75-34-3	1,1-Dichloroethane	ND	1.8	0.10	U
67-66-3	Chloroform	ND	1.8	0.44	U
56-23-5	Carbon tetrachloride	ND	1.2	0.25	U
78-87-5	1,2-Dichloropropane	ND	4.1	0.27	U
124-48-1	Dibromochloromethane	ND	1.2	0.18	U
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.36	U
127-18-4	Tetrachloroethene	ND	1.2	0.16	U
108-90-7	Chlorobenzene	ND	1.2	0.41	U
75-69-4	Trichlorofluoromethane	ND	5.9	0.46	U UJ
107-06-2	1,2-Dichloroethane	ND	1.2	0.13	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.2	0.13	U
75-27-4	Bromodichloromethane	ND	1.2	0.20	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	1.2	0.14	U
563-58-6	1,1-Dichloropropene	ND	5.9	0.17	U
75-25-2	Bromoform	ND	4.7	0.28	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.12	U
71-43-2	Benzene	ND	1.2	0.14	U
108-88-3	Toluene	ND	1.8	0.23	U UJ
100-41-4	Ethylbenzene	ND	1.2	0.15	U
74-87-3	Chloromethane	ND	5.9	0.35	U
74-83-9	Bromomethane	ND	2.4	0.40	U UJ
75-01-4	Vinyl chloride	ND	2.4	0.14	U UJ
75-00-3	Chloroethane	ND	2.4	0.37	U UJ
75-35-4	1,1-Dichloroethene	ND	1.2	0.31	U

JOS 1/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-16
 Client ID : SB-4 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A24
 Sample Amount : 4.3 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 11:15
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 20:47
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 98
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.25	U
79-01-6	Trichloroethene	ND	1.2	0.15	U
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.18	U
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.4	0.10	U
179601-23-1	p/m-Xylene	ND	2.4	0.23	U
95-47-6	o-Xylene	ND	2.4	0.20	U
1330-20-7	Xylenes, Total	ND	2.4	0.20	U
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.17	U
540-59-0	1,2-Dichloroethene, Total	ND	1.2	0.17	U
74-95-3	Dibromomethane	ND	12	0.19	U
100-42-5	Styrene	ND	2.4	0.48	U
75-71-8	Dichlorodifluoromethane	ND	12	0.22	U UJ
67-64-1	Acetone	4.4	12	1.2	J
75-15-0	Carbon disulfide	ND	12	1.3	U
78-93-3	2-Butanone	ND	12	0.32	U UJ
108-05-4	Vinyl acetate	ND	12	0.16	U UJ
108-10-1	4-Methyl-2-pentanone	ND	12	0.29	U
96-18-4	1,2,3-Trichloropropane	ND	12	0.19	U
591-78-6	2-Hexanone	ND	12	0.79	U UJ
74-97-5	Bromochloromethane	ND	5.9	0.33	U
594-20-7	2,2-Dichloropropane	ND	5.9	0.27	U
106-93-4	1,2-Dibromoethane	ND	4.7	0.21	U
142-28-9	1,3-Dichloropropane	ND	5.9	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.2	0.38	U
108-86-1	Bromobenzene	ND	5.9	0.24	U

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Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-16	Date Collected : 01/07/16 11:15
Client ID : SB-4 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 20:47
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A24	Instrument ID : CHARLIE.I
Sample Amount : 4.3 g	GC Column : RTX-VMS
Level : LOW	%Solids : 98
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.2	0.14	U
135-98-8	sec-Butylbenzene	ND	1.2	0.14	U
98-06-6	tert-Butylbenzene	ND	5.9	0.16	U
95-49-8	o-Chlorotoluene	ND	5.9	0.19	U
106-43-4	p-Chlorotoluene	ND	5.9	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	0.47	U
87-68-3	Hexachlorobutadiene	ND	5.9	0.27	U
98-82-8	Isopropylbenzene	ND	1.2	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.15	U
91-20-3	Naphthalene	ND	5.9	0.16	U
107-13-1	Acrylonitrile	ND	12	0.61	U
103-65-1	n-Propylbenzene	ND	1.2	0.13	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.21	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	0.17	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	0.17	U
123-91-1	1,4-Dioxane	ND	120	17.	U R
105-05-5	p-Diethylbenzene	ND	4.7	0.19	U
622-96-8	p-Ethyltoluene	ND	4.7	0.15	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.7	0.15	U
60-29-7	Ethyl ether	ND	5.9	0.31	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.9	0.46	U UJ

Jan
2/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1600381-08
Client ID : SB-5 (0-2)
Sample Location : QUEENS, NY
Sample Matrix : SOIL
Analytical Method : 1,8260C
Lab File ID : 0116A16
Sample Amount : 5.9 g
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1600381
Project Number : 12292
Date Collected : 01/07/16 09:45
Date Received : 01/07/16
Date Analyzed : 01/16/16 17:17
Dilution Factor : 1
Analyst : BS
Instrument ID : CHARLIE.I
GC Column : RTX-VMS
%Solids : 87
Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	9.7	1.1	U
75-34-3	1,1-Dichloroethane	ND	1.4	0.08	U
67-66-3	Chloroform	ND	1.4	0.36	U
56-23-5	Carbon tetrachloride	ND	0.97	0.20	U
78-87-5	1,2-Dichloropropane	ND	3.4	0.22	U
124-48-1	Dibromochloromethane	ND	0.97	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.4	0.29	U
127-18-4	Tetrachloroethene	ND	0.97	0.14	U
108-90-7	Chlorobenzene	ND	0.97	0.34	U
75-69-4	Trichlorofluoromethane	ND	4.8	0.38	U UJ
107-06-2	1,2-Dichloroethane	ND	0.97	0.11	U UJ
71-55-6	1,1,1-Trichloroethane	ND	0.97	0.11	U
75-27-4	Bromodichloromethane	ND	0.97	0.17	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.97	0.12	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.97	0.11	U
542-75-6	1,3-Dichloropropene, Total	ND	0.97	0.11	U
563-58-6	1,1-Dichloropropene	ND	4.8	0.14	U
75-25-2	Bromoform	ND	3.9	0.23	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.97	0.10	U
71-43-2	Benzene	ND	0.97	0.11	U
108-88-3	Toluene	ND	1.4	0.19	U UJ
100-41-4	Ethylbenzene	ND	0.97	0.12	U
74-87-3	Chloromethane	ND	4.8	0.28	U
74-83-9	Bromomethane	ND	1.9	0.33	U UJ
75-01-4	Vinyl chloride	ND	1.9	0.11	U UJ
75-00-3	Chloroethane	ND	1.9	0.31	U UJ
75-35-4	1,1-Dichloroethene	ND	0.97	0.25	U

Ja 2/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-08
 Client ID : SB-5 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A16
 Sample Amount : 5.9 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 09:45
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 17:17
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.4	0.20	U
79-01-6	Trichloroethene	ND	0.97	0.12	U
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.13	U
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.13	U
1634-04-4	Methyl tert butyl ether	ND	1.9	0.08	U
179601-23-1	p/m-Xylene	ND	1.9	0.19	U
95-47-6	o-Xylene	ND	1.9	0.17	U
1330-20-7	Xylenes, Total	ND	1.9	0.17	U
156-59-2	cis-1,2-Dichloroethene	ND	0.97	0.14	U
540-59-0	1,2-Dichloroethene, Total	ND	0.97	0.14	U
74-95-3	Dibromomethane	ND	9.7	0.16	U
100-42-5	Styrene	ND	1.9	0.39	U
75-71-8	Dichlorodifluoromethane	ND	9.7	0.18	U UJ
67-64-1	Acetone	3.2	9.7	1.0	J
75-15-0	Carbon disulfide	ND	9.7	1.1	U
78-93-3	2-Butanone	ND	9.7	0.26	U UJ
108-05-4	Vinyl acetate	ND	9.7	0.13	U UJ
108-10-1	4-Methyl-2-pentanone	ND	9.7	0.24	U
96-18-4	1,2,3-Trichloropropane	ND	9.7	0.16	U
591-78-6	2-Hexanone	ND	9.7	0.64	U UJ
74-97-5	Bromochloromethane	ND	4.8	0.27	U
594-20-7	2,2-Dichloropropane	ND	4.8	0.22	U
106-93-4	1,2-Dibromoethane	ND	3.9	0.17	U
142-28-9	1,3-Dichloropropane	ND	4.8	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.97	0.31	U
108-86-1	Bromobenzene	ND	4.8	0.20	U

JBR
 2/8/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-08	Date Collected : 01/07/16 09:45
Client ID : SB-5 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 17:17
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A16	Instrument ID : CHARLIE.I
Sample Amount : 5.9 g	GC Column : RTX-VMS
Level : LOW	%Solids : 87
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	0.97	0.11	U
135-98-8	sec-Butylbenzene	ND	0.97	0.12	U
98-06-6	tert-Butylbenzene	ND	4.8	0.13	U
95-49-8	o-Chlorotoluene	ND	4.8	0.15	U
106-43-4	p-Chlorotoluene	ND	4.8	0.13	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.8	0.38	U
87-68-3	Hexachlorobutadiene	ND	4.8	0.22	U
98-82-8	Isopropylbenzene	ND	0.97	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.97	0.12	U
91-20-3	Naphthalene	ND	4.8	0.13	U
107-13-1	Acrylonitrile	ND	9.7	0.50	U
103-65-1	n-Propylbenzene	ND	0.97	0.10	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.14	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.18	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.8	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.8	0.14	U
123-91-1	1,4-Dioxane	ND	97	14.	U R
105-05-5	p-Diethylbenzene	ND	3.9	0.15	U
622-96-8	p-Ethyltoluene	ND	3.9	0.12	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.9	0.13	U
60-29-7	Ethyl ether	ND	4.8	0.25	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.8	0.38	U UJ

JOP
2/7/16



Form 1

Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-09	Date Collected	: 01/07/16 09:35
Client ID	: SB-5 (12-14)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 17:43
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A17	Instrument ID	: CHARLIE.I
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 98
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	11	1.2	U
75-34-3	1,1-Dichloroethane	ND	1.6	0.09	U
67-66-3	Chloroform	ND	1.6	0.40	U
56-23-5	Carbon tetrachloride	ND	1.1	0.23	U
78-87-5	1,2-Dichloropropane	ND	3.8	0.25	U
124-48-1	Dibromochloromethane	ND	1.1	0.17	U
79-00-5	1,1,2-Trichloroethane	ND	1.6	0.33	U
127-18-4	Tetrachloroethene	ND	1.1	0.15	U
108-90-7	Chlorobenzene	ND	1.1	0.38	U
75-69-4	Trichlorofluoromethane	ND	5.4	0.42	U UJ
107-06-2	1,2-Dichloroethane	ND	1.1	0.12	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.12	U
75-27-4	Bromodichloromethane	ND	1.1	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.13	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.13	U
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.13	U
563-58-6	1,1-Dichloropropene	ND	5.4	0.15	U
75-25-2	Bromoform	ND	4.4	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.11	U
71-43-2	Benzene	ND	1.1	0.13	U
108-88-3	Toluene	ND	1.6	0.21	U UJ
100-41-4	Ethylbenzene	ND	1.1	0.14	U
74-87-3	Chloromethane	ND	5.4	0.32	U
74-83-9	Bromomethane	ND	2.2	0.37	U UJ
75-01-4	Vinyl chloride	ND	2.2	0.13	U UJ
75-00-3	Chloroethane	ND	2.2	0.34	U UJ
75-35-4	1,1-Dichloroethene	ND	1.1	0.28	U

JOP
2/17/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-09
 Client ID : SB-5 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A17
 Sample Amount : 4.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 09:35
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 17:43
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 98
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.6	0.23	U
79-01-6	Trichloroethene	ND	1.1	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.15	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.09	U
179601-23-1	p/m-Xylene	0.77	2.2	0.22	J
95-47-6	o-Xylene	ND	2.2	0.19	U
1330-20-7	Xylenes, Total	0.77	2.2	0.19	J
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.16	U
74-95-3	Dibromomethane	ND	11	0.18	U
100-42-5	Styrene	ND	2.2	0.44	U
75-71-8	Dichlorodifluoromethane	ND	11	0.21	U UT
67-64-1	Acetone	4.5	11	1.1	J
75-15-0	Carbon disulfide	ND	11	1.2	U
78-93-3	2-Butanone	ND	11	0.30	U UT
108-05-4	Vinyl acetate	ND	11	0.14	U UT
108-10-1	4-Methyl-2-pentanone	ND	11	0.26	U
96-18-4	1,2,3-Trichloropropane	ND	11	0.18	U
591-78-6	2-Hexanone	ND	11	0.72	U UT
74-97-5	Bromochloromethane	ND	5.4	0.30	U
594-20-7	2,2-Dichloropropane	ND	5.4	0.24	U
106-93-4	1,2-Dibromoethane	ND	4.4	0.19	U
142-28-9	1,3-Dichloropropane	ND	5.4	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.34	U
108-86-1	Bromobenzene	ND	5.4	0.23	U

JOP
2/8/16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-09	Date Collected	: 01/07/16 09:35
Client ID	: SB-5 (12-14)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 17:43
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A17	Instrument ID	: CHARLIE.I
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 98
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.1	0.12	U
135-98-8	sec-Butylbenzene	ND	1.1	0.13	U
98-06-6	tert-Butylbenzene	ND	5.4	0.15	U
95-49-8	o-Chlorotoluene	ND	5.4	0.17	U
106-43-4	p-Chlorotoluene	ND	5.4	0.14	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.4	0.43	U
87-68-3	Hexachlorobutadiene	ND	5.4	0.25	U
98-82-8	Isopropylbenzene	ND	1.1	0.11	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.14	U
91-20-3	Naphthalene	ND	5.4	0.15	U
107-13-1	Acrylonitrile	ND	11	0.56	U
103-65-1	n-Propylbenzene	ND	1.1	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.16	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.20	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	0.15	U
123-91-1	1,4-Dioxane	ND	110	16.	U R
105-05-5	p-Diethylbenzene	ND	4.4	0.17	U
622-96-8	p-Ethyltoluene	ND	4.4	0.13	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.4	0.14	U
60-29-7	Ethyl ether	ND	5.4	0.28	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.4	0.43	U UJ

Lop
2/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 14:13
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A09	Instrument ID : CHARLIE.I
Sample Amount : 6.0 g	GC Column : RTX-VMS
Level : LOW	%Solids : 84
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	9.9	1.1	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.09	U
67-66-3	Chloroform	2.0	1.5	0.37	
56-23-5	Carbon tetrachloride	ND	0.99	0.21	U
78-87-5	1,2-Dichloropropane	ND	3.5	0.23	U
124-48-1	Dibromochloromethane	ND	0.99	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.30	U UJ
127-18-4	Tetrachloroethene	1.5	0.99	0.14	
108-90-7	Chlorobenzene	ND	0.99	0.34	U UJ
75-69-4	Trichlorofluoromethane	ND	5.0	0.38	U UJ
107-06-2	1,2-Dichloroethane	ND	0.99	0.11	U UJ
71-55-6	1,1,1-Trichloroethane	ND	0.99	0.11	U
75-27-4	Bromodichloromethane	ND	0.99	0.17	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.99	0.12	U UJ
10061-01-5	cis-1,3-Dichloropropene	ND	0.99	0.12	U
542-75-6	1,3-Dichloropropene, Total	ND	0.99	0.12	U
563-58-6	1,1-Dichloropropene	ND	5.0	0.14	U
75-25-2	Bromoform	ND	4.0	0.23	U UJ
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.99	0.10	U UJ
71-43-2	Benzene	ND	0.99	0.12	U
108-88-3	Toluene	7.8	1.5	0.19	J-
100-41-4	Ethylbenzene	ND	0.99	0.13	U
74-87-3	Chloromethane	ND	5.0	0.29	U
74-83-9	Bromomethane	ND	2.0	0.34	U UJ
75-01-4	Vinyl chloride	ND	2.0	0.12	U UJ
75-00-3	Chloroethane	ND	2.0	0.31	U UJ
75-35-4	1,1-Dichloroethene	ND	0.99	0.26	U



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-01
 Client ID : SB-6 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A09
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 10:00
 Date Received : 01/06/16
 Date Analyzed : 01/16/16 14:13
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VM5
 %Solids : 84
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.21	U
79-01-6	Trichloroethene	ND	0.99	0.12	U
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.15	U UJ
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.13	U UJ
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.14	U UJ
1634-04-4	Methyl tert butyl ether	ND	2.0	0.08	U
179601-23-1	p/m-Xylene	ND	2.0	0.20	U UJ
95-47-6	o-Xylene	ND	2.0	0.17	U UJ
1330-20-7	Xylenes, Total	ND	2.0	0.17	U
156-59-2	cis-1,2-Dichloroethene	ND	0.99	0.14	U
540-59-0	1,2-Dichloroethene, Total	ND	0.99	0.14	U
74-95-3	Dibromomethane	ND	9.9	0.16	U
100-42-5	Styrene	ND	2.0	0.40	U UJ
75-71-8	Dichlorodifluoromethane	ND	9.9	0.19	U UJ
67-64-1	Acetone	2.1	9.9	1.0	J
75-15-0	Carbon disulfide	ND	9.9	1.1	U
78-93-3	2-Butanone	ND	9.9	0.27	U UJ
108-05-4	Vinyl acetate	ND	9.9	0.13	U UJ
108-10-1	4-Methyl-2-pentanone	ND	9.9	0.24	U UJ
96-18-4	1,2,3-Trichloropropane	ND	9.9	0.16	U UJ
591-78-6	2-Hexanone	ND	9.9	0.66	U UJ
74-97-5	Bromochloromethane	ND	5.0	0.27	U
594-20-7	2,2-Dichloropropane	ND	5.0	0.22	U
106-93-4	1,2-Dibromoethane	ND	4.0	0.17	U UJ
142-28-9	1,3-Dichloropropane	ND	5.0	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.99	0.32	U
108-86-1	Bromobenzene	ND	5.0	0.21	U UJ

JW 2/18/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-01
 Client ID : SB-6 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A09
 Sample Amount : 6.0 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 10:00
 Date Received : 01/06/16
 Date Analyzed : 01/16/16 14:13
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 84
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	0.99	0.11	U UJ
135-98-8	sec-Butylbenzene	ND	0.99	0.12	U
98-06-6	tert-Butylbenzene	ND	5.0	0.13	U
95-49-8	o-Chlorotoluene	ND	5.0	0.16	U UJ
106-43-4	p-Chlorotoluene	ND	5.0	0.13	U UJ
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.39	U UJ
87-68-3	Hexachlorobutadiene	ND	5.0	0.23	U UJ
98-82-8	Isopropylbenzene	ND	0.99	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.99	0.12	U UJ
91-20-3	Naphthalene	ND	5.0	0.14	U UJ
107-13-1	Acrylonitrile	ND	9.9	0.51	U
103-65-1	n-Propylbenzene	ND	0.99	0.11	U UJ
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.15	U UJ
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	U UJ
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.14	U
123-91-1	1,4-Dioxane	ND	99	14.	U R
105-05-5	p-Diethylbenzene	ND	4.0	0.16	U UJ
622-96-8	p-Ethyltoluene	ND	4.0	0.12	U UJ
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.0	0.13	U UJ
60-29-7	Ethyl ether	ND	5.0	0.26	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	0.39	U UJ

BS
 2/17/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-02
 Client ID : SB-6 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A12
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 10:10
 Date Received : 01/06/16
 Date Analyzed : 01/16/16 15:32
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 97
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	11	1.2	U
75-34-3	1,1-Dichloroethane	ND	1.7	0.10	U
67-66-3	Chloroform	ND	1.7	0.42	U
56-23-5	Carbon tetrachloride	ND	1.1	0.24	U
78-87-5	1,2-Dichloropropane	ND	3.9	0.26	U
124-48-1	Dibromochloromethane	ND	1.1	0.17	U
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.34	U
127-18-4	Tetrachloroethene	ND	1.1	0.16	U
108-90-7	Chlorobenzene	ND	1.1	0.39	U
75-69-4	Trichlorofluoromethane	ND	5.6	0.44	U VJ
107-06-2	1,2-Dichloroethane	ND	1.1	0.13	U VJ
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.12	U
75-27-4	Bromodichloromethane	ND	1.1	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.13	U
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.13	U
563-58-6	1,1-Dichloropropene	ND	5.6	0.16	U
75-25-2	Bromoform	ND	4.5	0.26	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.11	U
71-43-2	Benzene	ND	1.1	0.13	U
108-88-3	Toluene	22	1.7	0.22	J -
100-41-4	Ethylbenzene	ND	1.1	0.14	U
74-87-3	Chloromethane	ND	5.6	0.33	U
74-83-9	Bromomethane	ND	2.2	0.38	U VJ
75-01-4	Vinyl chloride	ND	2.2	0.13	U VJ
75-00-3	Chloroethane	ND	2.2	0.35	U VJ
75-35-4	1,1-Dichloroethene	ND	1.1	0.29	U

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Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-02	Date Collected : 01/06/16 10:10
Client ID : SB-6 (12-14)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 15:32
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A12	Instrument ID : CHARLIE.I
Sample Amount : 4.6 g	GC Column : RTX-VMS
Level : LOW	%Solids : 97
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.24	U
79-01-6	Trichloroethene	ND	1.1	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.2	0.10	U
179601-23-1	p/m-Xylene	ND	2.2	0.22	U
95-47-6	o-Xylene	ND	2.2	0.19	U
1330-20-7	Xylenes, Total	ND	2.2	0.19	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.16	U
74-95-3	Dibromomethane	ND	11	0.18	U
100-42-5	Styrene	ND	2.2	0.45	U
75-71-8	Dichlorodifluoromethane	ND	11	0.21	U UJ
67-64-1	Acetone	6.5	11	1.2	J
75-15-0	Carbon disulfide	ND	11	1.2	U
78-93-3	2-Butanone	ND	11	0.30	U UJ
108-05-4	Vinyl acetate	ND	11	0.15	U UJ
108-10-1	4-Methyl-2-pentanone	ND	11	0.27	U
96-18-4	1,2,3-Trichloropropane	ND	11	0.18	U
591-78-6	2-Hexanone	ND	11	0.75	U UJ
74-97-5	Bromochloromethane	ND	5.6	0.31	U
594-20-7	2,2-Dichloropropane	ND	5.6	0.25	U
106-93-4	1,2-Dibromoethane	ND	4.5	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.6	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.36	U
108-86-1	Bromobenzene	ND	5.6	0.23	U

2/11/16



Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-02
 Client ID : SB-6 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A12
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 10:10
 Date Received : 01/06/16
 Date Analyzed : 01/16/16 15:32
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 97
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.1	0.13	U
135-98-8	sec-Butylbenzene	ND	1.1	0.14	U
98-06-6	tert-Butylbenzene	ND	5.6	0.15	U
95-49-8	o-Chlorotoluene	ND	5.6	0.18	U
106-43-4	p-Chlorotoluene	ND	5.6	0.15	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.44	U
87-68-3	Hexachlorobutadiene	ND	5.6	0.26	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.14	U
91-20-3	Naphthalene	ND	5.6	0.16	U
107-13-1	Acrylonitrile	ND	11	0.58	U
103-65-1	n-Propylbenzene	ND	1.1	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.16	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.20	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	0.16	U
123-91-1	1,4-Dioxane	ND	110	16.	U R
105-05-5	p-Diethylbenzene	ND	4.5	0.18	U
622-96-8	p-Ethyltoluene	ND	4.5	0.14	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.5	0.15	U
60-29-7	Ethyl ether	ND	5.6	0.29	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.6	0.44	U UJ

JSA
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Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 18:10
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A18	Instrument ID : CHARLIE.I
Sample Amount : 4.5 g	GC Column : RTX-VMS
Level : LOW	%Solids : 86
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	13	1.4	U
75-34-3	1,1-Dichloroethane	ND	1.9	0.11	U
67-66-3	Chloroform	ND	1.9	0.48	U
56-23-5	Carbon tetrachloride	ND	1.3	0.27	U
78-87-5	1,2-Dichloropropane	ND	4.5	0.29	U
124-48-1	Dibromochloromethane	ND	1.3	0.20	U
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.39	U
127-18-4	Tetrachloroethene	ND	1.3	0.18	U
108-90-7	Chlorobenzene	ND	1.3	0.45	U
75-69-4	Trichlorofluoromethane	ND	6.4	0.50	U UJ
107-06-2	1,2-Dichloroethane	ND	1.3	0.15	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.3	0.14	U
75-27-4	Bromodichloromethane	ND	1.3	0.22	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.15	U
542-75-6	1,3-Dichloropropene, Total	ND	1.3	0.15	U
563-58-6	1,1-Dichloropropene	ND	6.4	0.18	U
75-25-2	Bromoform	ND	5.2	0.30	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	0.13	U
71-43-2	Benzene	ND	1.3	0.15	U
108-88-3	Toluene	ND	1.9	0.25	U UJ
100-41-4	Ethylbenzene	ND	1.3	0.16	U
74-87-3	Chloromethane	ND	6.4	0.38	U
74-83-9	Bromomethane	ND	2.6	0.44	U UJ
75-01-4	Vinyl chloride	ND	2.6	0.15	U UJ
75-00-3	Chloroethane	ND	2.6	0.41	U UJ
75-35-4	1,1-Dichloroethene	ND	1.3	0.34	U



JOM
2/17/16

Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-10
 Client ID : SB-7 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A18
 Sample Amount : 4.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 10:00
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 18:10
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 86
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.27	U
79-01-6	Trichloroethene	ND	1.3	0.16	U
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.20	U
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.17	U
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.6	0.11	U
179601-23-1	p/m-Xylene	ND	2.6	0.26	U
95-47-6	o-Xylene	ND	2.6	0.22	U
1330-20-7	Xylenes, Total	ND	2.6	0.22	U
156-59-2	cis-1,2-Dichloroethene	ND	1.3	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.3	0.18	U
74-95-3	Dibromomethane	ND	13	0.21	U
100-42-5	Styrene	ND	2.6	0.52	U
75-71-8	Dichlorodifluoromethane	ND	13	0.25	U UJ
67-64-1	Acetone	4.8	13	1.3	J
75-15-0	Carbon disulfide	ND	13	1.4	U
78-93-3	2-Butanone	ND	13	0.35	U UJ
108-05-4	Vinyl acetate	ND	13	0.17	U UJ
108-10-1	4-Methyl-2-pentanone	ND	13	0.32	U
96-18-4	1,2,3-Trichloropropane	ND	13	0.21	U
591-78-6	2-Hexanone	ND	13	0.86	U UJ
74-97-5	Bromochloromethane	ND	6.4	0.36	U
594-20-7	2,2-Dichloropropane	ND	6.4	0.29	U
106-93-4	1,2-Dibromoethane	ND	5.2	0.22	U
142-28-9	1,3-Dichloropropane	ND	6.4	0.19	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.3	0.41	U
108-86-1	Bromobenzene	ND	6.4	0.27	U

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Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 18:10
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A18	Instrument ID : CHARLIE.I
Sample Amount : 4.5 g	GC Column : RTX-VMS
Level : LOW	%Solids : 86
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.3	0.15	U
135-98-8	sec-Butylbenzene	ND	1.3	0.16	U
98-06-6	tert-Butylbenzene	ND	6.4	0.17	U
95-49-8	o-Chlorotoluene	ND	6.4	0.21	U
106-43-4	p-Chlorotoluene	ND	6.4	0.17	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.4	0.51	U
87-68-3	Hexachlorobutadiene	ND	6.4	0.29	U
98-82-8	Isopropylbenzene	ND	1.3	0.13	U
99-87-6	p-Isopropyltoluene	ND	1.3	0.16	U
91-20-3	Naphthalene	ND	6.4	0.18	U
107-13-1	Acrylonitrile	ND	13	0.66	U
103-65-1	n-Propylbenzene	ND	1.3	0.14	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.19	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.23	U
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	0.18	U
123-91-1	1,4-Dioxane	ND	130	19.	U R
105-05-5	p-Diethylbenzene	ND	5.2	0.21	U
622-96-8	p-Ethyltoluene	ND	5.2	0.16	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	5.2	0.17	U
60-29-7	Ethyl ether	ND	6.4	0.34	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.4	0.51	U UJ

Jan
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Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 19:02
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A20	Instrument ID : CHARLIE.I
Sample Amount : 4.0 g	GC Column : RTX-VMS
Level : LOW	%Solids : 98
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	13	1.4	U
75-34-3	1,1-Dichloroethane	ND	1.9	0.11	U
67-66-3	Chloroform	ND	1.9	0.47	U
56-23-5	Carbon tetrachloride	ND	1.3	0.27	U
78-87-5	1,2-Dichloropropane	ND	4.4	0.29	U
124-48-1	Dibromochloromethane	ND	1.3	0.20	U
79-00-5	1,1,2-Trichloroethane	ND	1.9	0.39	U
127-18-4	Tetrachloroethene	ND	1.3	0.18	U
108-90-7	Chlorobenzene	ND	1.3	0.44	U
75-69-4	Trichlorofluoromethane	ND	6.4	0.49	U UJ
107-06-2	1,2-Dichloroethane	ND	1.3	0.14	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.3	0.14	U
75-27-4	Bromodichloromethane	ND	1.3	0.22	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.3	0.15	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.3	0.15	U
542-75-6	1,3-Dichloropropene, Total	ND	1.3	0.15	U
563-58-6	1,1-Dichloropropene	ND	6.4	0.18	U
75-25-2	Bromoform	ND	5.1	0.30	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.3	0.13	U
71-43-2	Benzene	ND	1.3	0.15	U
108-88-3	Toluene	ND	1.9	0.25	U UJ
100-41-4	Ethylbenzene	ND	1.3	0.16	U
74-87-3	Chloromethane	ND	6.4	0.37	U
74-83-9	Bromomethane	ND	2.5	0.43	U UJ
75-01-4	Vinyl chloride	ND	2.5	0.15	U UJ
75-00-3	Chloroethane	ND	2.5	0.40	U UJ
75-35-4	1,1-Dichloroethene	ND	1.3	0.33	U

8012/1/16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-12	Date Collected	: 01/07/16 10:30
Client ID	: SB-8 (0-2)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 19:02
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A20	Instrument ID	: CHARLIE.I
Sample Amount	: 4.0 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 98
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.9	0.27	U
79-01-6	Trichloroethene	ND	1.3	0.16	U
95-50-1	1,2-Dichlorobenzene	ND	6.4	0.20	U
541-73-1	1,3-Dichlorobenzene	ND	6.4	0.17	U
106-46-7	1,4-Dichlorobenzene	ND	6.4	0.18	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.11	U
179601-23-1	p/m-Xylene	1.8	2.5	0.25	J
95-47-6	o-Xylene	0.85	2.5	0.22	J
1330-20-7	Xylenes, Total	2.7	2.5	0.22	J
156-59-2	cis-1,2-Dichloroethene	ND	1.3	0.18	U
540-59-0	1,2-Dichloroethene, Total	ND	1.3	0.18	U
74-95-3	Dibromomethane	ND	13	0.21	U
100-42-5	Styrene	ND	2.5	0.51	U
75-71-8	Dichlorodifluoromethane	ND	13	0.24	U UJ
67-64-1	Acetone	ND	13	1.3	U
75-15-0	Carbon disulfide	ND	13	1.4	U
78-93-3	2-Butanone	ND	13	0.35	U UJ
108-05-4	Vinyl acetate	ND	13	0.17	U UJ
108-10-1	4-Methyl-2-pentanone	ND	13	0.31	U
96-18-4	1,2,3-Trichloropropane	ND	13	0.21	U
591-78-6	2-Hexanone	ND	13	0.85	U UJ
74-97-5	Bromochloromethane	ND	6.4	0.35	U
594-20-7	2,2-Dichloropropane	ND	6.4	0.29	U
106-93-4	1,2-Dibromoethane	ND	5.1	0.22	U
142-28-9	1,3-Dichloropropane	ND	6.4	0.18	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.3	0.40	U
108-86-1	Bromobenzene	ND	6.4	0.26	U

SON
21/07/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 19:02
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A20	Instrument ID : CHARLIE.I
Sample Amount : 4.0 g	GC Column : RTX-VMS
Level : LOW	%Solids : 98
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.3	0.15	U
135-98-8	sec-Butylbenzene	ND	1.3	0.16	U
98-06-6	tert-Butylbenzene	ND	6.4	0.17	U
95-49-8	o-Chlorotoluene	ND	6.4	0.20	U
106-43-4	p-Chlorotoluene	ND	6.4	0.17	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.4	0.50	U
87-68-3	Hexachlorobutadiene	ND	6.4	0.29	U
98-82-8	Isopropylbenzene	ND	1.3	0.13	U
99-87-6	p-Isopropyltoluene	ND	1.3	0.16	U
91-20-3	Naphthalene	ND	6.4	0.18	U
107-13-1	Acrylonitrile	ND	13	0.65	U
103-65-1	n-Propylbenzene	ND	1.3	0.14	U
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	0.19	U
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	0.23	U
108-67-8	1,3,5-Trimethylbenzene	ND	6.4	0.18	U
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	0.18	U
123-91-1	1,4-Dioxane	ND	130	18.	U R
105-05-5	p-Diethylbenzene	ND	5.1	0.20	U
622-96-8	p-Ethyltoluene	ND	5.1	0.16	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	5.1	0.16	U
60-29-7	Ethyl ether	ND	6.4	0.33	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	6.4	0.50	U UJ

JOP
2/17/16



Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-14
 Client ID : SB-9 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A22
 Sample Amount : 5.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 10:45
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 19:55
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	9.8	1.1	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.08	U
67-66-3	Chloroform	ND	1.5	0.36	U
56-23-5	Carbon tetrachloride	ND	0.98	0.21	U
78-87-5	1,2-Dichloropropane	ND	3.4	0.22	U
124-48-1	Dibromochloromethane	ND	0.98	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.30	U
127-18-4	Tetrachloroethene	ND	0.98	0.14	U
108-90-7	Chlorobenzene	ND	0.98	0.34	U
75-69-4	Trichlorofluoromethane	ND	4.9	0.38	U UJ
107-06-2	1,2-Dichloroethane	ND	0.98	0.11	U UJ
71-55-6	1,1,1-Trichloroethane	ND	0.98	0.11	U
75-27-4	Bromodichloromethane	ND	0.98	0.17	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.98	0.12	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.98	0.12	U
542-75-6	1,3-Dichloropropene, Total	ND	0.98	0.12	U
563-58-6	1,1-Dichloropropene	ND	4.9	0.14	U
75-25-2	Bromoform	ND	3.9	0.23	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.98	0.10	U
71-43-2	Benzene	ND	0.98	0.12	U
108-88-3	Toluene	ND	1.5	0.19	U UJ
100-41-4	Ethylbenzene	ND	0.98	0.12	U
74-87-3	Chloromethane	ND	4.9	0.29	U
74-83-9	Bromomethane	ND	2.0	0.33	U UJ
75-01-4	Vinyl chloride	ND	2.0	0.12	U UJ
75-00-3	Chloroethane	ND	2.0	0.31	U UJ
75-35-4	1,1-Dichloroethene	ND	0.98	0.26	U

JOP 2/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-14	Date Collected : 01/07/16 10:45
Client ID : SB-9 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 19:55
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A22	Instrument ID : CHARLIE.I
Sample Amount : 5.6 g	GC Column : RTX-VMS
Level : LOW	%Solids : 91
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.21	U
79-01-6	Trichloroethene	ND	0.98	0.12	U
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.13	U
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.14	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.08	U
179601-23-1	p/m-Xylene	ND	2.0	0.19	U
95-47-6	o-Xylene	ND	2.0	0.17	U
1330-20-7	Xylenes, Total	ND	2.0	0.17	U
156-59-2	cis-1,2-Dichloroethene	ND	0.98	0.14	U
540-59-0	1,2-Dichloroethene, Total	ND	0.98	0.14	U
74-95-3	Dibromomethane	ND	9.8	0.16	U
100-42-5	Styrene	ND	2.0	0.40	U
75-71-8	Dichlorodifluoromethane	ND	9.8	0.19	U UJ
67-64-1	Acetone	3.2	9.8	1.0	J
75-15-0	Carbon disulfide	ND	9.8	1.1	U
78-93-3	2-Butanone	ND	9.8	0.27	U UJ
108-05-4	Vinyl acetate	ND	9.8	0.13	U UJ
108-10-1	4-Methyl-2-pentanone	ND	9.8	0.24	U
96-18-4	1,2,3-Trichloropropane	ND	9.8	0.16	U
591-78-6	2-Hexanone	ND	9.8	0.65	U UJ
74-97-5	Bromochloromethane	ND	4.9	0.27	U
594-20-7	2,2-Dichloropropane	ND	4.9	0.22	U
106-93-4	1,2-Dibromoethane	ND	3.9	0.17	U
142-28-9	1,3-Dichloropropane	ND	4.9	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.98	0.31	U
108-86-1	Bromobenzene	ND	4.9	0.20	U

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Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-14	Date Collected	: 01/07/16 10:45
Client ID	: SB-9 (0-2)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 19:55
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A22	Instrument ID	: CHARLIE.I
Sample Amount	: 5.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	0.98	0.11	U
135-98-8	sec-Butylbenzene	ND	0.98	0.12	U
98-06-6	tert-Butylbenzene	ND	4.9	0.13	U
95-49-8	o-Chlorotoluene	ND	4.9	0.16	U
106-43-4	p-Chlorotoluene	ND	4.9	0.13	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	4.9	0.39	U
87-68-3	Hexachlorobutadiene	ND	4.9	0.22	U
98-82-8	Isopropylbenzene	ND	0.98	0.10	U
99-87-6	p-Isopropyltoluene	ND	0.98	0.12	U
91-20-3	Naphthalene	ND	4.9	0.14	U
107-13-1	Acrylonitrile	ND	9.8	0.50	U
103-65-1	n-Propylbenzene	ND	0.98	0.11	U
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.14	U
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.18	U
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	0.14	U
123-91-1	1,4-Dioxane	ND	98	14.	U R
105-05-5	p-Diethylbenzene	ND	3.9	0.16	U
622-96-8	p-Ethyltoluene	ND	3.9	0.12	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	3.9	0.13	U
60-29-7	Ethyl ether	ND	4.9	0.26	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	4.9	0.38	U UJ

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Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-19	Date Collected	: 01/11/16 08:50
Client ID	: SB-10 (0-2)	Date Received	: 01/11/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/19/16 04:35
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MS
Lab File ID	: 0118N22	Instrument ID	: VOA110.I
Sample Amount	: 4.8 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	11	1.2	U
75-34-3	1,1-Dichloroethane	ND	1.7	0.10	U
67-66-3	Chloroform	ND	1.7	0.42	U
56-23-5	Carbon tetrachloride	ND	1.1	0.24	U
78-87-5	1,2-Dichloropropane	ND	4.0	0.26	U
124-48-1	Dibromochloromethane	ND	1.1	0.18	U
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.35	U
127-18-4	Tetrachloroethene	ND	1.1	0.16	U
108-90-7	Chlorobenzene	ND	1.1	0.40	U
75-69-4	Trichlorofluoromethane	ND	5.7	0.44	U <i>UJ</i>
107-06-2	1,2-Dichloroethane	ND	1.1	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.13	U
75-27-4	Bromodichloromethane	ND	1.1	0.20	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.13	U
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.13	U
563-58-6	1,1-Dichloropropene	ND	5.7	0.16	U
75-25-2	Bromoform	ND	4.6	0.27	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.11	U
71-43-2	Benzene	ND	1.1	0.13	U
108-88-3	Toluene	1.4	1.7	0.22	J
100-41-4	Ethylbenzene	ND	1.1	0.14	U
74-87-3	Chloromethane	ND	5.7	0.34	U
74-83-9	Bromomethane	ND	2.3	0.38	U <i>UJ</i>
75-01-4	Vinyl chloride	ND	2.3	0.13	U <i>UJ</i>
75-00-3	Chloroethane	ND	2.3	0.36	U <i>UJ</i>
75-35-4	1,1-Dichloroethene	ND	1.1	0.30	U

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Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/19/16 04:35
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : MS
Lab File ID : 0118N22	Instrument ID : VOA110.I
Sample Amount : 4.8 g	GC Column : RTX-VMS
Level : LOW	%Solids : 91
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.24	U
79-01-6	Trichloroethene	ND	1.1	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.7	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	5.7	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	5.7	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.3	0.10	U
179601-23-1	p/m-Xylene	ND	2.3	0.22	U
95-47-6	o-Xylene	ND	2.3	0.20	U
1330-20-7	Xylenes, Total	ND	2.3	0.20	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.16	U
74-95-3	Dibromomethane	ND	11	0.19	U
100-42-5	Styrene	ND	2.3	0.46	U
75-71-8	Dichlorodifluoromethane	ND	11	0.22	U
67-64-1	Acetone	ND	11	1.2	U
75-15-0	Carbon disulfide	ND	11	1.2	U
78-93-3	2-Butanone	ND	11	0.31	U
108-05-4	Vinyl acetate	ND	11	0.15	U
108-10-1	4-Methyl-2-pentanone	ND	11	0.28	U <i>UT</i>
96-18-4	1,2,3-Trichloropropane	ND	11	0.18	U
591-78-6	2-Hexanone	ND	11	0.76	U
74-97-5	Bromochloromethane	ND	5.7	0.31	U
594-20-7	2,2-Dichloropropane	ND	5.7	0.26	U
106-93-4	1,2-Dibromoethane	ND	4.6	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.7	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.36	U
108-86-1	Bromobenzene	ND	5.7	0.24	U



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Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-19
 Client ID : SB-10 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0118N22
 Sample Amount : 4.8 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/11/16 08:50
 Date Received : 01/11/16
 Date Analyzed : 01/19/16 04:35
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA110.1
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.1	0.13	U
135-98-8	sec-Butylbenzene	ND	1.1	0.14	U
98-06-6	tert-Butylbenzene	ND	5.7	0.15	U
95-49-8	o-Chlorotoluene	ND	5.7	0.18	U
106-43-4	p-Chlorotoluene	ND	5.7	0.15	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.7	0.45	U
87-68-3	Hexachlorobutadiene	ND	5.7	0.26	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.14	U
91-20-3	Naphthalene	1.4	5.7	0.16	J
107-13-1	Acrylonitrile	ND	11	0.58	U
103-65-1	n-Propylbenzene	ND	1.1	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.7	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.7	0.21	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.7	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.7	0.16	U
123-91-1	1,4-Dioxane	ND	110	16.	U R
105-05-5	p-Diethylbenzene	ND	4.6	0.18	U
622-96-8	p-Ethyltoluene	ND	4.6	0.14	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.6	0.15	U
60-29-7	Ethyl ether	ND	5.7	0.30	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.7	0.45	U

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Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-20
 Client ID : SB-10 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0118N23
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/11/16 09:10
 Date Received : 01/11/16
 Date Analyzed : 01/19/16 05:01
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA110.I
 GC Column : RTX-VMS
 %Solids : 96
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	11	1.2	U
75-34-3	1,1-Dichloroethane	ND	1.7	0.10	U
67-66-3	Chloroform	ND	1.7	0.42	U
56-23-5	Carbon tetrachloride	ND	1.1	0.24	U
78-87-5	1,2-Dichloropropane	ND	4.0	0.26	U
124-48-1	Dibromochloromethane	ND	1.1	0.17	U
79-00-5	1,1,2-Trichloroethane	ND	1.7	0.34	U
127-18-4	Tetrachloroethene	ND	1.1	0.16	U
108-90-7	Chlorobenzene	ND	1.1	0.39	U
75-69-4	Trichlorofluoromethane	ND	5.6	0.44	U UJ
107-06-2	1,2-Dichloroethane	ND	1.1	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	1.1	0.12	U
75-27-4	Bromodichloromethane	ND	1.1	0.20	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.1	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.1	0.13	U
542-75-6	1,3-Dichloropropene, Total	ND	1.1	0.13	U
563-58-6	1,1-Dichloropropene	ND	5.6	0.16	U
75-25-2	Bromofom	ND	4.5	0.27	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.1	0.11	U
71-43-2	Benzene	ND	1.1	0.13	U
108-88-3	Toluene	1.4	1.7	0.22	J
100-41-4	Ethylbenzene	ND	1.1	0.14	U
74-87-3	Chloromethane	ND	5.6	0.33	U
74-83-9	Bromomethane	ND	2.3	0.38	U UJ
75-01-4	Vinyl chloride	ND	2.3	0.13	U UJ
75-00-3	Chloroethane	ND	2.3	0.36	U UJ
75-35-4	1,1-Dichloroethene	ND	1.1	0.30	U



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Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-20
 Client ID : SB-10 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0118N23
 Sample Amount : 4.6 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/11/16 09:10
 Date Received : 01/11/16
 Date Analyzed : 01/19/16 05:01
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA110.1
 GC Column : RTX-VM5
 %Solids : 96
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.7	0.24	U
79-01-6	Trichloroethene	ND	1.1	0.14	U
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.17	U
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.15	U
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.3	0.10	U
179601-23-1	p/m-Xylene	ND	2.3	0.22	U
95-47-6	o-Xylene	ND	2.3	0.19	U
1330-20-7	Xylenes, Total	ND	2.3	0.19	U
156-59-2	cis-1,2-Dichloroethene	ND	1.1	0.16	U
540-59-0	1,2-Dichloroethene, Total	ND	1.1	0.16	U
74-95-3	Dibromomethane	ND	11	0.18	U
100-42-5	Styrene	ND	2.3	0.45	U
75-71-8	Dichlorodifluoromethane	ND	11	0.22	U
67-64-1	Acetone	ND	11	1.2	U
75-15-0	Carbon disulfide	ND	11	1.2	U
78-93-3	2-Butanone	ND	11	0.31	U
108-05-4	Vinyl acetate	ND	11	0.15	U
108-10-1	4-Methyl-2-pentanone	ND	11	0.28	U
96-18-4	1,2,3-Trichloropropane	ND	11	0.18	U
591-78-6	2-Hexanone	ND	11	0.75	U
74-97-5	Bromochloromethane	ND	5.6	0.31	U
594-20-7	2,2-Dichloropropane	ND	5.6	0.26	U
106-93-4	1,2-Dibromoethane	ND	4.5	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.6	0.16	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.1	0.36	U
108-86-1	Bromobenzene	ND	5.6	0.24	U

ND - 8.1 - U

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Form 1

Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-20	Date Collected	: 01/11/16 09:10
Client ID	: SB-10 (12-14)	Date Received	: 01/11/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/19/16 05:01
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MS
Lab File ID	: 0118N23	Instrument ID	: VOA110.I
Sample Amount	: 4.6 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 96
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.1	0.13	U
135-98-8	sec-Butylbenzene	ND	1.1	0.14	U
98-06-6	tert-Butylbenzene	ND	5.6	0.15	U
95-49-8	o-Chlorotoluene	ND	5.6	0.18	U
106-43-4	p-Chlorotoluene	ND	5.6	0.15	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.6	0.45	U
87-68-3	Hexachlorobutadiene	ND	5.6	0.26	U
98-82-8	Isopropylbenzene	ND	1.1	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.1	0.14	U
91-20-3	Naphthalene	1.4	5.6	0.16	J
107-13-1	Acrylonitrile	ND	11	0.58	U
103-65-1	n-Propylbenzene	ND	1.1	0.12	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.20	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.6	0.16	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.6	0.16	U
123-91-1	1,4-Dioxane	ND	110	16.	U R
105-05-5	p-Diethylbenzene	ND	4.5	0.18	U
622-96-8	p-Ethyltoluene	ND	4.5	0.14	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.5	0.15	U
60-29-7	Ethyl ether	ND	5.6	0.29	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.6	0.44	U

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Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-07
 Client ID : SB-11 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A15
 Sample Amount : 6.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 07:50
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 16:51
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VM5
 %Solids : 81
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	10	1.1	U
75-34-3	1,1-Dichloroethane	ND	1.5	0.09	U
67-66-3	Chloroform	5.7	1.5	0.37	
56-23-5	Carbon tetrachloride	ND	1.0	0.21	U
78-87-5	1,2-Dichloropropane	ND	3.5	0.23	U
124-48-1	Dibromochloromethane	ND	1.0	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.30	U
127-18-4	Tetrachloroethene	3.2	1.0	0.14	
108-90-7	Chlorobenzene	ND	1.0	0.35	U
75-69-4	Trichlorofluoromethane	ND	5.0	0.39	-U UJ
107-06-2	1,2-Dichloroethane	ND	1.0	0.11	-U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.11	U
75-27-4	Bromodichloromethane	ND	1.0	0.17	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.12	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.12	U
542-75-6	1,3-Dichloropropene, Total	ND	1.0	0.12	U
563-58-6	1,1-Dichloropropene	ND	5.0	0.14	U
75-25-2	Bromofom	ND	4.0	0.24	U
79-34-5	1,1,1,2-Tetrachloroethane	ND	1.0	0.10	U
71-43-2	Benzene	ND	1.0	0.12	U
108-88-3	Toluene	ND	1.5	0.19	-U UJ
100-41-4	Ethylbenzene	ND	1.0	0.13	U
74-87-3	Chloromethane	ND	5.0	0.29	U
74-83-9	Bromomethane	ND	2.0	0.34	-U UJ
75-01-4	Vinyl chloride	ND	2.0	0.12	-U UJ
75-00-3	Chloroethane	ND	2.0	0.32	-U UJ
75-35-4	1,1-Dichloroethene	ND	1.0	0.26	U



JOP
 2/17/16

Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 16:51
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : BS
Lab File ID : 0116A15	Instrument ID : CHARLIE.I
Sample Amount : 6.2 g	GC Column : RTX-VMS
Level : LOW	%Solids : 81
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.5	0.21	U
79-01-6	Trichloroethene	ND	1.0	0.12	U
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.15	U
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.13	U
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.14	U
1634-04-4	Methyl tert butyl ether	ND	2.0	0.08	U
179601-23-1	p/m-Xylene	ND	2.0	0.20	U
95-47-6	o-Xylene	ND	2.0	0.17	U
1330-20-7	Xylenes, Total	ND	2.0	0.17	U
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.14	U
540-59-0	1,2-Dichloroethene, Total	ND	1.0	0.14	U
74-95-3	Dibromomethane	ND	10	0.16	U
100-42-5	Styrene	ND	2.0	0.40	U
75-71-8	Dichlorodifluoromethane	ND	10	0.19	U UJ
67-64-1	Acetone	3.5	10	1.0	J
75-15-0	Carbon disulfide	ND	10	1.1	U
78-93-3	2-Butanone	ND	10	0.27	U UJ
108-05-4	Vinyl acetate	ND	10	0.13	U UJ
108-10-1	4-Methyl-2-pentanone	ND	10	0.24	U
96-18-4	1,2,3-Trichloropropane	ND	10	0.16	U
591-78-6	2-Hexanone	ND	10	0.66	U UJ
74-97-5	Bromochloromethane	ND	5.0	0.28	U
594-20-7	2,2-Dichloropropane	ND	5.0	0.22	U
106-93-4	1,2-Dibromoethane	ND	4.0	0.17	U
142-28-9	1,3-Dichloropropane	ND	5.0	0.14	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.32	U
108-86-1	Bromobenzene	ND	5.0	0.21	U

JOP
2/18/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-07
 Client ID : SB-11 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A15
 Sample Amount : 6.2 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 07:50
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 16:51
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 81
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.0	0.11	U
135-98-8	sec-Butylbenzene	ND	1.0	0.12	U
98-06-6	tert-Butylbenzene	ND	5.0	0.14	U
95-49-8	o-Chlorotoluene	ND	5.0	0.16	U
106-43-4	p-Chlorotoluene	ND	5.0	0.13	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.40	U
87-68-3	Hexachlorobutadiene	ND	5.0	0.23	U
98-82-8	Isopropylbenzene	ND	1.0	0.10	U
99-87-6	p-Isopropyltoluene	ND	1.0	0.12	U
91-20-3	Naphthalene	ND	5.0	0.14	U
107-13-1	Acrylonitrile	ND	10	0.51	U
103-65-1	n-Propylbenzene	ND	1.0	0.11	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.15	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.18	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	0.14	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	0.14	U
123-91-1	1,4-Dioxane	ND	100	14.	U R
105-05-5	p-Diethylbenzene	ND	4.0	0.16	U
622-96-8	p-Ethyltoluene	ND	4.0	0.12	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.0	0.13	U
60-29-7	Ethyl ether	ND	5.0	0.26	U VJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.0	0.39	U VJ

for 2/17/16



Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-21
 Client ID : SB-12 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0118N24
 Sample Amount : 4.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/11/16 09:30
 Date Received : 01/11/16
 Date Analyzed : 01/19/16 05:27
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA110.1
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	12	1.3	U
75-34-3	1,1-Dichloroethane	ND	1.8	0.10	U
67-66-3	Chloroform	ND	1.8	0.43	U
56-23-5	Carbon tetrachloride	ND	1.2	0.25	U
78-87-5	1,2-Dichloropropane	ND	4.1	0.27	U
124-48-1	Dibromochloromethane	ND	1.2	0.18	U
79-00-5	1,1,2-Trichloroethane	ND	1.8	0.36	U
127-18-4	Tetrachloroethene	ND	1.2	0.16	U
108-90-7	Chlorobenzene	ND	1.2	0.41	U
75-69-4	Trichlorofluoromethane	ND	5.9	0.46	U UJ
107-06-2	1,2-Dichloroethane	ND	1.2	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	1.2	0.13	U
75-27-4	Bromodichloromethane	ND	1.2	0.20	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.2	0.14	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.2	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	1.2	0.14	U
563-58-6	1,1-Dichloropropene	ND	5.9	0.17	U
75-25-2	Bromoform	ND	4.7	0.28	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.2	0.12	U
71-43-2	Benzene	ND	1.2	0.14	U
108-88-3	Toluene	2.0	1.8	0.23	
100-41-4	Ethylbenzene	1.0	1.2	0.15	J
74-87-3	Chloromethane	ND	5.9	0.34	U UJ
74-83-9	Bromomethane	ND	2.4	0.40	U UJ
75-01-4	Vinyl chloride	ND	2.4	0.14	U UJ
75-00-3	Chloroethane	ND	2.4	0.37	U
75-35-4	1,1-Dichloroethene	ND	1.2	0.31	U

201/21/8116



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-21
 Client ID : SB-12 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0118N24
 Sample Amount : 4.7 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/11/16 09:30
 Date Received : 01/11/16
 Date Analyzed : 01/19/16 05:27
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA110.I
 GC Column : RTX-VMS
 %Solids : 91
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	1.8	0.25	U
79-01-6	Trichloroethene	ND	1.2	0.15	U
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.18	U
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.16	U
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.16	U
1634-04-4	Methyl tert butyl ether	ND	2.4	0.10	U
179601-23-1	p/m-Xylene	ND	2.4	0.23	U
95-47-6	o-Xylene	ND	2.4	0.20	U
1330-20-7	Xylenes, Total	ND	2.4	0.20	U
156-59-2	cis-1,2-Dichloroethene	ND	1.2	0.17	U
540-59-0	1,2-Dichloroethene, Total	ND	1.2	0.17	U
74-95-3	Dibromomethane	ND	12	0.19	U
100-42-5	Styrene	5.3	2.4	0.47	
75-71-8	Dichlorodifluoromethane	6.1	12	0.22	J
67-64-1	Acetone	ND	12	1.2	U
75-15-0	Carbon disulfide	ND	12	1.3	U
78-93-3	2-Butanone	ND	12	0.32	U
108-05-4	Vinyl acetate	ND	12	0.16	U
108-10-1	4-Methyl-2-pentanone	ND	12	0.29	U <i>UT</i>
96-18-4	1,2,3-Trichloropropane	ND	12	0.19	U
591-78-6	2-Hexanone	ND	12	0.78	U
74-97-5	Bromochloromethane	ND	5.9	0.32	U
594-20-7	2,2-Dichloropropane	ND	5.9	0.26	U
106-93-4	1,2-Dibromoethane	ND	4.7	0.20	U
142-28-9	1,3-Dichloropropane	ND	5.9	0.17	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.2	0.37	U
108-86-1	Bromobenzene	ND	5.9	0.24	U



for 21/1/16

Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-21	Date Collected	: 01/11/16 09:30
Client ID	: SB-12 (0-2)	Date Received	: 01/11/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/19/16 05:27
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: MS
Lab File ID	: 0118N24	Instrument ID	: VOA110.I
Sample Amount	: 4.7 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 91
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.2	0.13	U
135-98-8	sec-Butylbenzene	ND	1.2	0.14	U
98-06-6	tert-Butylbenzene	ND	5.9	0.16	U
95-49-8	o-Chlorotoluene	ND	5.9	0.19	U
106-43-4	p-Chlorotoluene	ND	5.9	0.16	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	0.46	U
87-68-3	Hexachlorobutadiene	ND	5.9	0.27	U
98-82-8	Isopropylbenzene	ND	1.2	0.12	U
99-87-6	p-Isopropyltoluene	ND	1.2	0.15	U
91-20-3	Naphthalene	ND	5.9	0.16	U
107-13-1	Acrylonitrile	ND	12	0.60	U
103-65-1	n-Propylbenzene	ND	1.2	0.13	U
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.17	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.21	U
108-67-8	1,3,5-Trimethylbenzene	ND	5.9	0.17	U
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	0.17	U
123-91-1	1,4-Dioxane	ND	120	17.	U R
105-05-5	p-Diethylbenzene	ND	4.7	0.19	U
622-96-8	p-Ethyltoluene	ND	4.7	0.14	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	4.7	0.15	U
60-29-7	Ethyl ether	ND	5.9	0.30	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	5.9	0.46	U

Soil 1/16



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-11	Date Collected	: 01/07/16 10:10
Client ID	: SB-13 (0-2)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 18:36
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A19	Instrument ID	: CHARLIE.I
Sample Amount	: 3.5 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	16	1.8	U
75-34-3	1,1-Dichloroethane	ND	2.4	0.14	U
67-66-3	Chloroform	ND	2.4	0.60	U
56-23-5	Carbon tetrachloride	ND	1.6	0.34	U
78-87-5	1,2-Dichloropropane	ND	5.7	0.37	U
124-48-1	Dibromochloromethane	ND	1.6	0.25	U
79-00-5	1,1,2-Trichloroethane	ND	2.4	0.50	U
127-18-4	Tetrachloroethene	ND	1.6	0.23	U
108-90-7	Chlorobenzene	ND	1.6	0.57	U
75-69-4	Trichlorofluoromethane	ND	8.2	0.63	U UJ
107-06-2	1,2-Dichloroethane	ND	1.6	0.18	U UJ
71-55-6	1,1,1-Trichloroethane	ND	1.6	0.18	U
75-27-4	Bromodichloromethane	ND	1.6	0.28	U
10061-02-6	trans-1,3-Dichloropropene	ND	1.6	0.20	U
10061-01-5	cis-1,3-Dichloropropene	ND	1.6	0.19	U
542-75-6	1,3-Dichloropropene, Total	ND	1.6	0.19	U
563-58-6	1,1-Dichloropropene	ND	8.2	0.23	U
75-25-2	Bromoform	ND	6.5	0.38	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.6	0.16	U
71-43-2	Benzene	ND	1.6	0.19	U
108-88-3	Toluene	ND	2.4	0.32	U UJ
100-41-4	Ethylbenzene	ND	1.6	0.21	U
74-87-3	Chloromethane	ND	8.2	0.48	U
74-83-9	Bromomethane	ND	3.3	0.55	U UJ
75-01-4	Vinyl chloride	ND	3.3	0.19	U UJ
75-00-3	Chloroethane	ND	3.3	0.52	U UJ
75-35-4	1,1-Dichloroethene	ND	1.6	0.43	U



JOM 2/17/16

Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-11	Date Collected	: 01/07/16 10:10
Client ID	: SB-13 (0-2)	Date Received	: 01/07/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/16/16 18:36
Sample Matrix	: SOIL	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: BS
Lab File ID	: 0116A19	Instrument ID	: CHARLIE.I
Sample Amount	: 3.5 g	GC Column	: RTX-VMS
Level	: LOW	%Solids	: 87
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.4	0.35	U
79-01-6	Trichloroethene	ND	1.6	0.20	U
95-50-1	1,2-Dichlorobenzene	ND	8.2	0.25	U
541-73-1	1,3-Dichlorobenzene	ND	8.2	0.22	U
106-46-7	1,4-Dichlorobenzene	ND	8.2	0.23	U
1634-04-4	Methyl tert butyl ether	ND	3.3	0.14	U
179601-23-1	p/m-Xylene	ND	3.3	0.32	U
95-47-6	o-Xylene	ND	3.3	0.28	U
1330-20-7	Xylenes, Total	ND	3.3	0.28	U
156-59-2	cis-1,2-Dichloroethene	ND	1.6	0.23	U
540-59-0	1,2-Dichloroethene, Total	ND	1.6	0.23	U
74-95-3	Dibromomethane	ND	16	0.27	U
100-42-5	Styrene	ND	3.3	0.66	U
75-71-8	Dichlorodifluoromethane	ND	16	0.31	U UJ
67-64-1	Acetone	6.6	16	1.7	J
75-15-0	Carbon disulfide	ND	16	1.8	U
78-93-3	2-Butanone	ND	16	0.44	U UJ
108-05-4	Vinyl acetate	ND	16	0.22	U UJ
108-10-1	4-Methyl-2-pentanone	ND	16	0.40	U
96-18-4	1,2,3-Trichloropropane	ND	16	0.26	U
591-78-6	2-Hexanone	ND	16	1.1	U UJ
74-97-5	Bromochloromethane	ND	8.2	0.45	U
594-20-7	2,2-Dichloropropane	ND	8.2	0.37	U
106-93-4	1,2-Dibromoethane	ND	6.5	0.28	U
142-28-9	1,3-Dichloropropane	ND	8.2	0.24	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.6	0.52	U
108-86-1	Bromobenzene	ND	8.2	0.34	U



John 2/8/16

Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-11
 Client ID : SB-13 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8260C
 Lab File ID : 0116A19
 Sample Amount : 3.5 g
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 10:10
 Date Received : 01/07/16
 Date Analyzed : 01/16/16 18:36
 Dilution Factor : 1
 Analyst : BS
 Instrument ID : CHARLIE.I
 GC Column : RTX-VMS
 %Solids : 87
 Injection Volume : N/A

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
104-51-8	n-Butylbenzene	ND	1.6	0.19	U
135-98-8	sec-Butylbenzene	ND	1.6	0.20	U
98-06-6	tert-Butylbenzene	ND	8.2	0.22	U
95-49-8	o-Chlorotoluene	ND	8.2	0.26	U
106-43-4	p-Chlorotoluene	ND	8.2	0.22	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.2	0.65	U
87-68-3	Hexachlorobutadiene	ND	8.2	0.37	U
98-82-8	Isopropylbenzene	ND	1.6	0.17	U
99-87-6	p-Isopropyltoluene	ND	1.6	0.20	U
91-20-3	Naphthalene	ND	8.2	0.23	U
107-13-1	Acrylonitrile	ND	16	0.84	U
103-65-1	n-Propylbenzene	ND	1.6	0.18	U
87-61-6	1,2,3-Trichlorobenzene	ND	8.2	0.24	U
120-82-1	1,2,4-Trichlorobenzene	ND	8.2	0.30	U
108-67-8	1,3,5-Trimethylbenzene	ND	8.2	0.23	U
95-63-6	1,2,4-Trimethylbenzene	ND	8.2	0.23	U
123-91-1	1,4-Dioxane	ND	160	24.	U R
105-05-5	p-Diethylbenzene	ND	6.5	0.26	U
622-96-8	p-Ethyltoluene	ND	6.5	0.20	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	6.5	0.21	U
60-29-7	Ethyl ether	ND	8.2	0.42	U UJ
110-57-6	trans-1,4-Dichloro-2-butene	ND	8.2	0.64	U UJ

JSM
 2/17/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-05
 Client ID : FIELD BLANK-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0107A08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 12:50
 Date Received : 01/06/16
 Date Analyzed : 01/07/16 12:29
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U UJ
74-83-9	Bromomethane	ND	2.5	0.70	U UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

201
 4/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-05
 Client ID : FIELD BLANK-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0107A08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 12:50
 Date Received : 01/06/16
 Date Analyzed : 01/07/16 12:29
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

JOP
 2/8/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-05
 Client ID : FIELD BLANK-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0107A08
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/06/16 12:50
 Date Received : 01/06/16
 Date Analyzed : 01/07/16 12:29
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

JPM
 1/8/16



Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-06
 Client ID : TRIP BLANK-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0107A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/04/16 00:00
 Date Received : 01/06/16
 Date Analyzed : 01/07/16 13:01
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U UJ
74-83-9	Bromomethane	ND	2.5	0.70	U UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

JON
 2/7/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-06
 Client ID : TRIP BLANK-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0107A09
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/04/16 00:00
 Date Received : 01/06/16
 Date Analyzed : 01/07/16 13:01
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

for
 218716



Form 1 Volatile Organics

Client	: AKRF, Inc.	Lab Number	: L1600381
Project Name	: 94-02 148TH ST&147-20 94TH AVE	Project Number	: 12292
Lab ID	: L1600381-06	Date Collected	: 01/04/16 00:00
Client ID	: TRIP BLANK-1	Date Received	: 01/06/16
Sample Location	: QUEENS, NY	Date Analyzed	: 01/07/16 13:01
Sample Matrix	: WATER	Dilution Factor	: 1
Analytical Method	: 1,8260C	Analyst	: PD
Lab File ID	: 0107A09	Instrument ID	: GONZO.I
Sample Amount	: 10 ml	GC Column	: RTX-502.2
Level	: LOW	%Solids	: N/A
Extract Volume (MeOH)	: N/A	Injection Volume	: N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

JOP
2/8/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-17
 Client ID : TRIP BLANK-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0108A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 00:00
 Date Received : 01/07/16
 Date Analyzed : 01/08/16 11:08
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U UJ
74-83-9	Bromomethane	ND	2.5	0.70	U UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

801-2-8716



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-17
 Client ID : TRIP BLANK-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0108A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 00:00
 Date Received : 01/07/16
 Date Analyzed : 01/08/16 11:08
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	ND	5.0	1.5	U R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U UJ
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U
591-78-6	2-Hexanone	ND	5.0	1.0	U UJ
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

for 2/17/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-17
 Client ID : TRIP BLANK-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0108A05
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/07/16 00:00
 Date Received : 01/07/16
 Date Analyzed : 01/08/16 11:08
 Dilution Factor : 1
 Analyst : PD
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U UJ

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 2/8/16



Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-22
 Client ID : TRIP BLANK-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0113N07
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/04/16 00:00
 Date Received : 01/11/16
 Date Analyzed : 01/13/16 21:39
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	-U UJ
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	-U UJ
74-83-9	Bromomethane	ND	2.5	0.70	U UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

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Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-22
 Client ID : TRIP BLANK-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0113N07
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1600381
 Project Number : 12292
 Date Collected : 01/04/16 00:00
 Date Received : 01/11/16
 Date Analyzed : 01/13/16 21:39
 Dilution Factor : 1
 Analyst : PK
 Instrument ID : GONZO.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U UJ
107-13-1	Acrylonitrile	ND	5.0	1.5	U UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U
67-64-1	Acetone	5.4	5.0	1.5	J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U UJ
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

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Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-22	Date Collected : 01/04/16 00:00
Client ID : TRIP BLANK-3	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 21:39
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : PK
Lab File ID : 0113N07	Instrument ID : GONZO.I
Sample Amount : 10 ml	GC Column : RTX-502.2
Level : LOW	%Solids : N/A
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U <i>VJ</i>
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U <i>VJ</i>
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U <i>R</i>
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

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PART 3
SEMIVOLATILES (SDG L1600381)
Appendix C
Data Summary Form I's
With Qualifications

Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-13
 Client ID : SB-1 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-13
 Sample Amount : 30.97 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:30
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 23:07
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.I
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifler
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	19.	U
120-82-1	1,2,4-Trichlorobenzene	ND	180	21.	U
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	25.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
95-50-1	1,2-Dichlorobenzene	ND	180	33.	U
541-73-1	1,3-Dichlorobenzene	ND	180	32.	U
106-46-7	1,4-Dichlorobenzene	ND	180	32.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	49.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	180	37.	U
606-20-2	2,6-Dinitrotoluene	ND	180	32.	U
206-44-0	Fluoranthene	23	110	21.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	28.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	32.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	18.	U
87-68-3	Hexachlorobutadiene	ND	180	27.	U
77-47-4	Hexachlorocyclopentadiene	ND	530	170	U
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	170	24.	U
91-20-3	Naphthalene	ND	180	22.	U
98-95-3	Nitrobenzene	ND	170	27.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	150	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U

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Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-13
 Client ID : SB-1 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-13
 Sample Amount : 30.97 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:30
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 23:07
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.I
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifler
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	180	64.	U
85-68-7	Butyl benzyl phthalate	ND	180	47.	U
84-74-2	Di-n-butylphthalate	ND	180	35.	U
117-84-0	Di-n-octylphthalate	ND	180	63.	U
84-66-2	Diethyl phthalate	ND	180	17.	U
131-11-3	Dimethyl phthalate	ND	180	39.	U
56-55-3	Benzo(a)anthracene	ND	110	21.	U
50-32-8	Benzo(a)pyrene	ND	150	45.	U
205-99-2	Benzo(b)fluoranthene	ND	110	31.	U
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U
218-01-9	Chrysene	ND	110	19.	U
208-96-8	Acenaphthylene	ND	150	28.	U
120-12-7	Anthracene	ND	110	36.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	180	18.	U
85-01-8	Phenanthrene	ND	110	22.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	150	26.	U
129-00-0	Pyrene	22	110	18.	J
92-52-4	Biphenyl	ND	420	43.	U
106-47-8	4-Chloroaniline	ND	180	34.	U
88-74-4	2-Nitroaniline	ND	180	36.	U
99-09-2	3-Nitroaniline	ND	180	35.	U
100-01-6	4-Nitroaniline	ND	180	76.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-13
 Client ID : SB-1 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-13
 Sample Amount : 30.97 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:30
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 23:07
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.I
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	180	17.	U
91-57-6	2-Methylnaphthalene	ND	220	22.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	23.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	35.	U
59-50-7	P-Chloro-M-Cresol	ND	180	28.	U
95-57-8	2-Chlorophenol	ND	180	22.	U
120-83-2	2,4-Dichlorophenol	ND	170	30.	U
105-67-9	2,4-Dimethylphenol	ND	180	61.	U
88-75-5	2-Nitrophenol	ND	400	70.	U
100-02-7	4-Nitrophenol	ND	260	75.	U
51-28-5	2,4-Dinitrophenol	ND	890	86.	U
534-52-1	4,6-Dinitro-o-cresol	ND	480	89.	U
87-86-5	Pentachlorophenol	ND	150	41.	U
108-95-2	Phenol	ND	180	28.	U
95-48-7	2-Methylphenol	ND	180	29.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	29.	U
95-95-4	2,4,5-Trichlorophenol	ND	180	35.	U
65-85-0	Benzoic Acid	ND	600	190	U
100-51-6	Benzyl Alcohol	ND	180	56.	U
86-74-8	Carbazole	ND	180	18.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-18
 Client ID : SB-2 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-18
 Sample Amount : 30.29 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 08:15
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 18:18
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.1
 GC Column : RTX-5
 %Solids : 93
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
120-82-1	1,2,4-Trichlorobenzene	ND	180	20.	U
118-74-1	Hexachlorobenzene	ND	110	20.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	24.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
95-50-1	1,2-Dichlorobenzene	ND	180	32.	U
541-73-1	1,3-Dichlorobenzene	ND	180	31.	U
106-46-7	1,4-Dichlorobenzene	ND	180	31.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	47.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	180	36.	U
606-20-2	2,6-Dinitrotoluene	ND	180	30.	U
206-44-0	Fluoranthene	100	110	20.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	19.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	27.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	210	30.	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	190	18.	U
87-68-3	Hexachlorobutadiene	ND	180	26.	U
77-47-4	Hexachlorocyclopentadiene	ND	510	160	U UJ
67-72-1	Hexachloroethane	ND	140	29.	U
78-59-1	Isophorone	ND	160	23.	U
91-20-3	Naphthalene	ND	180	22.	U
98-95-3	Nitrobenzene	ND	160	26.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	140	20.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U


 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-18	Date Collected : 01/11/16 08:15
Client ID : SB-2 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 18:18
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-18	Analyst : JB
Sample Amount : 30.29 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 93
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	180	62.	U
85-68-7	Butyl benzyl phthalate	ND	180	45.	U
84-74-2	Di-n-butylphthalate	ND	180	34.	U
117-84-0	Di-n-octylphthalate	ND	180	61.	U
84-66-2	Diethyl phthalate	ND	180	16.	U
131-11-3	Dimethyl phthalate	ND	180	37.	U
56-55-3	Benzo(a)anthracene	47	110	20.	J
50-32-8	Benzo(a)pyrene	44	140	43.	J
205-99-2	Benzo(b)fluoranthene	45	110	30.	J
207-08-9	Benzo(k)fluoranthene	ND	110	28.	U
218-01-9	Chrysene	50	110	18.	J
208-96-8	Acenaphthylene	ND	140	28.	U
120-12-7	Anthracene	ND	110	35.	U
191-24-2	Benzo(ghi)perylene	24	140	21.	J
86-73-7	Fluorene	ND	180	17.	U
85-01-8	Phenanthrene	69	110	22.	J
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	26	140	25.	J
129-00-0	Pyrene	87	110	18.	J
92-52-4	Biphenyl	ND	410	41.	U
106-47-8	4-Chloroaniline	ND	180	32.	U
88-74-4	2-Nitroaniline	ND	180	34.	U
99-09-2	3-Nitroaniline	ND	180	34.	U
100-01-6	4-Nitroaniline	ND	180	74.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-18
 Client ID : SB-2 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-18
 Sample Amount : 30.29 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 08:15
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 18:18
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.1
 GC Column : RTX-5
 %Solids : 93
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	180	17.	U
91-57-6	2-Methylnaphthalene	ND	210	22.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	22.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	34.	U
59-50-7	P-Chloro-M-Cresol	ND	180	26.	U
95-57-8	2-Chlorophenol	ND	180	21.	U
120-83-2	2,4-Dichlorophenol	ND	160	29.	U
105-67-9	2,4-Dimethylphenol	ND	180	59.	U
88-75-5	2-Nitrophenol	ND	380	67.	U
100-02-7	4-Nitrophenol	ND	250	73.	U
51-28-5	2,4-Dinitrophenol	ND	860	83.	U
534-52-1	4,6-Dinitro-o-cresol	ND	460	86.	U
87-86-5	Pentachlorophenol	ND	140	39.	U
108-95-2	Phenol	ND	180	27.	U
95-48-7	2-Methylphenol	ND	180	28.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	260	28.	U
95-95-4	2,4,5-Trichlorophenol	ND	180	34.	U
65-85-0	Benzoic Acid	ND	580	180	U <i>UJ</i>
100-51-6	Benzyl Alcohol	ND	180	54.	U
86-74-8	Carbazole	ND	180	17.	U

for 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 02:21
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-03	Analyst : JB
Sample Amount : 30.19 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 95
GPC Cleanup : N	Injection Volume : 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	20.	U
118-74-1	Hexachlorobenzene	ND	100	20.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	24.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
95-50-1	1,2-Dichlorobenzene	ND	170	31.	U
541-73-1	1,3-Dichlorobenzene	ND	170	30.	U
106-46-7	1,4-Dichlorobenzene	ND	170	30.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	46.	U VJ
121-14-2	2,4-Dinitrotoluene	ND	170	35.	U
606-20-2	2,6-Dinitrotoluene	ND	170	30.	U
206-44-0	Fluoranthene	150	100	20.	U J
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	19.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	27.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	210	30.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	190	18.	U
87-68-3	Hexachlorobutadiene	ND	170	26.	U
77-47-4	Hexachlorocyclopentadiene	ND	500	160	U
67-72-1	Hexachloroethane	ND	140	28.	U
78-59-1	Isophorone	ND	160	23.	U
91-20-3	Naphthalene	ND	170	21.	U
98-95-3	Nitrobenzene	ND	160	26.	U
86-30-6	NitrosoDIphenylAmine(NDPA)/DPA	ND	140	20.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	27.	U

80/2/16/116



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 02:21
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-03	Analyst : JB
Sample Amount : 30.19 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 95
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	170	60.	U
85-68-7	Butyl benzyl phthalate	ND	170	44.	U
84-74-2	Di-n-butylphthalate	ND	170	33.	U
117-84-0	Di-n-octylphthalate	ND	170	59.	U
84-66-2	Diethyl phthalate	ND	170	16.	U
131-11-3	Dimethyl phthalate	ND	170	37.	U
56-55-3	Benzo(a)anthracene	87	100	20.	J J
50-32-8	Benzo(a)pyrene	71	140	43.	J J
205-99-2	Benzo(b)fluoranthene	99	100	29.	J J
207-08-9	Benzo(k)fluoranthene	30	100	28.	J J
218-01-9	Chrysene	75	100	18.	J J
208-96-8	Acenaphthylene	ND	140	27.	U
120-12-7	Anthracene	ND	100	34.	U
191-24-2	Benzo(ghi)perylene	52	140	20.	J J
86-73-7	Fluorene	ND	170	17.	U
85-01-8	Phenanthrene	56	100	21.	J J
53-70-3	Dibenzo(a,h)anthracene	67	100	20.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	58	140	24.	J J
129-00-0	Pyrene	130	100	17.	J
92-52-4	Biphenyl	ND	400	40.	U
106-47-8	4-Chloroaniline	ND	170	32.	U
88-74-4	2-Nitroaniline	ND	170	34.	U
99-09-2	3-Nitroaniline	ND	170	33.	U
100-01-6	4-Nitroaniline	ND	170	72.	U

JOP
2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 02:21
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-03	Analyst : JB
Sample Amount : 30.19 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 95
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	210	21.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	18.	U
98-86-2	Acetophenone	ND	170	22.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	33.	U
59-50-7	P-Chloro-M-Cresol	ND	170	26.	U
95-57-8	2-Chlorophenol	ND	170	21.	U
120-83-2	2,4-Dichlorophenol	ND	160	28.	U
105-67-9	2,4-Dimethylphenol	ND	170	58.	U
88-75-5	2-Nitrophenol	ND	380	66.	U
100-02-7	4-Nitrophenol	ND	240	71.	U
51-28-5	2,4-Dinitrophenol	ND	840	81.	U
534-52-1	4,6-Dinitro-o-cresol	ND	450	84.	U
87-86-5	Pentachlorophenol	ND	140	38.	U
108-95-2	Phenol	ND	170	26.	U
95-48-7	2-Methylphenol	ND	170	27.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	250	27.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	33.	U
65-85-0	Benzoic Acid	ND	570	180	U
100-51-6	Benzyl Alcohol	ND	170	53.	U
86-74-8	Carbazole	ND	170	17.	U



Form 1 SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2) <i>COUP OF SB-3 0-2</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 02:48
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-04	Analyst : JB
Sample Amount : 30.93 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	20.	U
120-82-1	1,2,4-Trichlorobenzene	ND	200	22.	U
118-74-1	Hexachlorobenzene	ND	120	22.	U
111-44-4	Bis(2-chloroethyl)ether	ND	180	27.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
95-50-1	1,2-Dichlorobenzene	ND	200	35.	U
541-73-1	1,3-Dichlorobenzene	ND	200	34.	U
106-46-7	1,4-Dichlorobenzene	ND	200	34.	U
91-94-1	3,3'-Dichlorobenzidine	ND	200	52.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	200	39.	U
606-20-2	2,6-Dinitrotoluene	ND	200	34.	U
206-44-0	Fluoranthene	680	120	23.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	21.	U
101-55-3	4-Bromophenyl phenyl ether	ND	200	30.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	240	34.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	210	20.	U
87-68-3	Hexachlorobutadiene	ND	200	29.	U
77-47-4	Hexachlorocyclopentadiene	ND	560	180	U
67-72-1	Hexachloroethane	ND	160	32.	U
78-59-1	Isophorone	ND	180	26.	U
91-20-3	Naphthalene	ND	200	24.	U
98-95-3	Nitrobenzene	ND	180	29.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	160	22.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	200	30.	U

*for
1/16/16*



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2) <i>(COUP OF SB-3 (0-2))</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 02:48
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-04	Analyst : JB
Sample Amount : 30.93 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	200	68.	U
85-68-7	Butyl benzyl phthalate	ND	200	50.	U
84-74-2	Di-n-butylphthalate	ND	200	37.	U
117-84-0	Di-n-octylphthalate	ND	200	67.	U
84-66-2	Diethyl phthalate	ND	200	18.	U
131-11-3	Dimethyl phthalate	ND	200	41.	U
56-55-3	Benzo(a)anthracene	360	120	22.	J
50-32-8	Benzo(a)pyrene	310	160	48.	J
205-99-2	Benzo(b)fluoranthene	430	120	33.	J
207-08-9	Benzo(k)fluoranthene	180	120	32.	J
218-01-9	Chrysene	340	120	20.	J
208-96-8	Acenaphthylene	93	160	30.	J
120-12-7	Anthracene	58	120	38.	J
191-24-2	Benzo(ghi)perylene	200	160	23.	J
86-73-7	Fluorene	ND	200	19.	U
85-01-8	Phenanthrene	180	120	24.	J
53-70-3	Dibenzo(a,h)anthracene	100	120	23.	J
193-39-5	Indeno(1,2,3-cd)Pyrene	240	160	27.	J
129-00-0	Pyrene	540	120	20.	J
92-52-4	Biphenyl	ND	450	46.	U
106-47-8	4-Chloroaniline	ND	200	36.	U
88-74-4	2-Nitroaniline	ND	200	38.	U
99-09-2	3-Nitroaniline	ND	200	37.	U
100-01-6	4-Nitroaniline	ND	200	82.	U

SOP
2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 02:48
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-04	Analyst : JB
Sample Amount : 30.93 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	200	19.	U
91-57-6	2-Methylnaphthalene	ND	240	24.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	20.	U
98-86-2	Acetophenone	ND	200	24.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	37.	U
59-50-7	P-Chloro-M-Cresol	ND	200	29.	U
95-57-8	2-Chlorophenol	ND	200	23.	U
120-83-2	2,4-Dichlorophenol	ND	180	32.	U
105-67-9	2,4-Dimethylphenol	ND	200	65.	U
88-75-5	2-Nitrophenol	ND	420	74.	U
100-02-7	4-Nitrophenol	ND	280	80.	U
51-28-5	2,4-Dinitrophenol	ND	950	92.	U
534-52-1	4,6-Dinitro-o-cresol	ND	510	95.	U
87-86-5	Pentachlorophenol	ND	160	43.	U
108-95-2	Phenol	ND	200	30.	U
95-48-7	2-Methylphenol	ND	200	30.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	280	31.	U
95-95-4	2,4,5-Trichlorophenol	ND	200	38.	U
65-85-0	Benzoic Acid	ND	640	200	U
100-51-6	Benzyl Alcohol	ND	200	60.	U
86-74-8	Carbazole	46	200	19.	J



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-15
 Client ID : SB-4 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-15
 Sample Amount : 30.43 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 11:05
 Date Received : 01/07/16
 Date Analyzed : 01/11/16 23:23
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : RC
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	20.	U
120-82-1	1,2,4-Trichlorobenzene	ND	190	22.	U
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	26.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
95-50-1	1,2-Dichlorobenzene	ND	190	34.	U
541-73-1	1,3-Dichlorobenzene	ND	190	32.	U
106-46-7	1,4-Dichlorobenzene	ND	190	33.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	50.	U
121-14-2	2,4-Dinitrotoluene	ND	190	38.	U
606-20-2	2,6-Dinitrotoluene	ND	190	32.	U UJ
206-44-0	Fluoranthene	46	110	22.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	29.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	230	32.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	19.	U
87-68-3	Hexachlorobutadiene	ND	190	28.	U
77-47-4	Hexachlorocyclopentadiene	ND	540	170	U UJ
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	170	24.	U
91-20-3	Naphthalene	ND	190	23.	U
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	150	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	190	29.	U

RC
 1/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-15
 Client ID : SB-4 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-15
 Sample Amount : 30.43 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 11:05
 Date Received : 01/07/16
 Date Analyzed : 01/11/16 23:23
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : RC
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	190	65.	UJ
85-68-7	Butyl benzyl phthalate	ND	190	47.	U
84-74-2	Di-n-butylphthalate	ND	190	36.	U
117-84-0	Di-n-octylphthalate	ND	190	64.	U
84-66-2	Diethyl phthalate	ND	190	17.	U
131-11-3	Dimethyl phthalate	ND	190	40.	U
56-55-3	Benzo(a)anthracene	33	110	21.	J
50-32-8	Benzo(a)pyrene	ND	150	46.	U
205-99-2	Benzo(b)fluoranthene	ND	110	32.	U
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U
218-01-9	Chrysene	34	110	20.	J
208-96-8	Acenaphthylene	ND	150	29.	U
120-12-7	Anthracene	ND	110	37.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	190	18.	U
85-01-8	Phenanthrene	26	110	23.	J
53-70-3	Dibenzo(a,h)anthracene	ND	110	22.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	150	26.	U
129-00-0	Pyrene	45	110	19.	J
92-52-4	Biphenyl	ND	430	44.	U
106-47-8	4-Chloroaniline	ND	190	34.	U
88-74-4	2-Nitroaniline	ND	190	36.	U
99-09-2	3-Nitroaniline	ND	190	36.	U
100-01-6	4-Nitroaniline	ND	190	78.	U

RC
2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-15	Date Collected : 01/07/16 11:05
Client ID : SB-4 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 23:23
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-15	Analyst : RC
Sample Amount : 30.43 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	190	18.	U
91-57-6	2-Methylnaphthalene	ND	230	23.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	ND	190	23.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	36.	U
59-50-7	P-Chloro-M-Cresol	ND	190	28.	U
95-57-8	2-Chlorophenol	ND	190	22.	U
120-83-2	2,4-Dichlorophenol	ND	170	30.	U
105-67-9	2,4-Dimethylphenol	ND	190	62.	U
88-75-5	2-Nitrophenol	ND	410	71.	U
100-02-7	4-Nitrophenol	ND	260	77.	U
51-28-5	2,4-Dinitrophenol	ND	900	88.	U
534-52-1	4,6-Dinitro-o-cresol	ND	490	90.	U
87-86-5	Pentachlorophenol	ND	150	41.	U
108-95-2	Phenol	ND	190	28.	U
95-48-7	2-Methylphenol	ND	190	29.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	30.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	36.	U
65-85-0	Benzoic Acid	ND	610	190	U UJ
100-51-6	Benzyl Alcohol	ND	190	58.	U
86-74-8	Carbazole	ND	190	18.	U

JON 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-16	Date Collected : 01/07/16 11:15
Client ID : SB-4 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 23:51
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-16	Analyst : RC
Sample Amount : 30.34 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	19.	U
118-74-1	Hexachlorobenzene	ND	100	19.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	23.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
95-50-1	1,2-Dichlorobenzene	ND	170	30.	U
541-73-1	1,3-Dichlorobenzene	ND	170	29.	U
106-46-7	1,4-Dichlorobenzene	ND	170	29.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	44.	U
121-14-2	2,4-Dinitrotoluene	ND	170	33.	U
606-20-2	2,6-Dinitrotoluene	ND	170	29.	U UJ
206-44-0	Fluoranthene	ND	100	19.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	26.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	29.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	170	24.	U
77-47-4	Hexachlorocyclopentadiene	ND	480	150	U UJ
67-72-1	Hexachloroethane	ND	130	27.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	170	20.	U
98-95-3	Nitrobenzene	ND	150	25.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	130	19.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	26.	U

JOP
21 6/11/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-16
 Client ID : SB-4 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-16
 Sample Amount : 30.34 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 11:15
 Date Received : 01/07/16
 Date Analyzed : 01/11/16 23:51
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : RC
 Instrument ID : GCMS7.I
 GC Column : RTX-5
 %Solids : 98
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	170	58.	U UJ
85-68-7	Butyl benzyl phthalate	ND	170	42.	U
84-74-2	Di-n-butylphthalate	ND	170	32.	U
117-84-0	Di-n-octylphthalate	ND	170	57.	U
84-66-2	Diethyl phthalate	ND	170	16.	U
131-11-3	Dimethyl phthalate	ND	170	35.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	130	41.	U
205-99-2	Benzo(b)fluoranthene	ND	100	28.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	17.	U
208-96-8	Acenaphthylene	ND	130	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	130	20.	U
86-73-7	Fluorene	ND	170	16.	U
85-01-8	Phenanthrene	ND	100	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	19.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	130	23.	U
129-00-0	Pyrene	ND	100	17.	U
92-52-4	Biphenyl	ND	380	39.	U
106-47-8	4-Chloroaniline	ND	170	30.	U
88-74-4	2-Nitroaniline	ND	170	32.	U
99-09-2	3-Nitroaniline	ND	170	32.	U
100-01-6	4-Nitroaniline	ND	170	69.	U

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 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-16
 Client ID : SB-4 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-16
 Sample Amount : 30.34 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 11:15
 Date Received : 01/07/16
 Date Analyzed : 01/11/16 23:51
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : RC
 Instrument ID : GCMS7.I
 GC Column : RTX-5
 %Solids : 98
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	17.	U
98-86-2	Acetophenone	ND	170	21.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	32.	U
59-50-7	P-Chloro-M-Cresol	ND	170	25.	U
95-57-8	2-Chlorophenol	ND	170	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	27.	U
105-67-9	2,4-Dimethylphenol	ND	170	55.	U
88-75-5	2-Nitrophenol	ND	360	63.	U
100-02-7	4-Nitrophenol	ND	230	68.	U
51-28-5	2,4-Dinitrophenol	ND	800	78.	U
534-52-1	4,6-Dinitro-o-cresol	ND	440	80.	U
87-86-5	Pentachlorophenol	ND	130	37.	U
108-95-2	Phenol	ND	170	25.	U
95-48-7	2-Methylphenol	ND	170	26.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	240	26.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	32.	U
65-85-0	Benzoic Acid	ND	540	170	U-UJ
100-51-6	Benzyl Alcohol	ND	170	51.	U
86-74-8	Carbazole	ND	170	16.	U

Sent
 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-08
 Client ID : SB-5 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-08
 Sample Amount : 30.56 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 09:45
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 00:58
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	19.	U
120-82-1	1,2,4-Trichlorobenzene	ND	190	21.	U
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	25.	U
91-58-7	2-Chloronaphthalene	ND	190	18.	U
95-50-1	1,2-Dichlorobenzene	ND	190	34.	U
541-73-1	1,3-Dichlorobenzene	ND	190	32.	U
106-46-7	1,4-Dichlorobenzene	ND	190	33.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	50.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	190	37.	U
606-20-2	2,6-Dinitrotoluene	ND	190	32.	U
206-44-0	Fluoranthene	ND	110	21.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	28.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	32.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	19.	U
87-68-3	Hexachlorobutadiene	ND	190	27.	U
77-47-4	Hexachlorocyclopentadiene	ND	540	170	U
67-72-1	Hexachloroethane	ND	150	30.	U
78-59-1	Isophorone	ND	170	24.	U
91-20-3	Naphthalene	ND	190	23.	U
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NitrosoDIPhenylAmine(NDPA)/DPA	ND	150	21.	U
621-64-7	n-Nitrosodl-n-propylamine	ND	190	29.	U

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Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-08
 Client ID : SB-5 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-08
 Sample Amount : 30.56 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 09:45
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 00:58
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	190	65.	U
85-68-7	Butyl benzyl phthalate	ND	190	47.	U
84-74-2	Di-n-butylphthalate	ND	190	35.	U
117-84-0	Di-n-octylphthalate	ND	190	64.	U
84-66-2	Diethyl phthalate	ND	190	17.	U
131-11-3	Dimethyl phthalate	ND	190	39.	U
56-55-3	Benzo(a)anthracene	ND	110	21.	U
50-32-8	Benzo(a)pyrene	ND	150	46.	U
205-99-2	Benzo(b)fluoranthene	ND	110	32.	U
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U
218-01-9	Chrysene	ND	110	19.	U
208-96-8	Acenaphthylene	ND	150	29.	U
120-12-7	Anthracene	ND	110	36.	U
191-24-2	Benzo(ghi)perylene	ND	150	22.	U
86-73-7	Fluorene	ND	190	18.	U
85-01-8	Phenanthrene	ND	110	23.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	22.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	150	26.	U
129-00-0	Pyrene	ND	110	19.	U
92-52-4	Biphenyl	ND	430	43.	U
106-47-8	4-Chloroaniline	ND	190	34.	U
88-74-4	2-Nitroaniline	ND	190	36.	U
99-09-2	3-Nitroaniline	ND	190	35.	U
100-01-6	4-Nitroaniline	ND	190	78.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-08
 Client ID : SB-5 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-08
 Sample Amount : 30.56 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 09:45
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 00:58
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	190	18.	U
91-57-6	2-Methylnaphthalene	ND	220	23.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	ND	190	23.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	35.	U
59-50-7	P-Chloro-M-Cresol	ND	190	28.	U
95-57-8	2-Chlorophenol	ND	190	22.	U
120-83-2	2,4-Dichlorophenol	ND	170	30.	U
105-67-9	2,4-Dimethylphenol	ND	190	62.	U
88-75-5	2-Nitrophenol	ND	400	70.	U
100-02-7	4-Nitrophenol	ND	260	76.	U
51-28-5	2,4-Dinitrophenol	ND	900	87.	U
534-52-1	4,6-Dinitro-o-cresol	ND	490	90.	U
87-86-5	Pentachlorophenol	ND	150	41.	U
108-95-2	Phenol	ND	190	28.	U
95-48-7	2-Methylphenol	ND	190	29.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	29.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	36.	U
65-85-0	Benzoic Acid	ND	610	190	U
100-51-6	Benzyl Alcohol	ND	190	57.	U
86-74-8	Carbazole	ND	190	18.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-09
 Client ID : SB-5 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-09
 Sample Amount : 30.68 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 09:35
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 01:26
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 98
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	19.	U
118-74-1	Hexachlorobenzene	ND	100	19.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	22.	U
91-58-7	2-Chloronaphthalene	ND	170	16.	U
95-50-1	1,2-Dichlorobenzene	ND	170	30.	U
541-73-1	1,3-Dichlorobenzene	ND	170	29.	U
106-46-7	1,4-Dichlorobenzene	ND	170	29.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	44.	U UT
121-14-2	2,4-Dinitrotoluene	ND	170	33.	U
606-20-2	2,6-Dinitrotoluene	ND	170	28.	U
206-44-0	Fluoranthene	ND	100	19.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	25.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	28.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	170	24.	U
77-47-4	Hexachlorocyclopentadiene	ND	480	150	U
67-72-1	Hexachloroethane	ND	130	27.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	170	20.	U
98-95-3	Nitrobenzene	ND	150	25.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	130	19.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	26.	U

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Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 01:26
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-09	Analyst : JB
Sample Amount : 30.68 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	170	58.	U
85-68-7	Butyl benzyl phthalate	ND	170	42.	U
84-74-2	Di-n-butylphthalate	ND	170	32.	U
117-84-0	Di-n-octylphthalate	ND	170	57.	U
84-66-2	Diethyl phthalate	ND	170	15.	U
131-11-3	Dimethyl phthalate	ND	170	35.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	130	41.	U
205-99-2	Benzo(b)fluoranthene	ND	100	28.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	17.	U
208-96-8	Acenaphthylene	ND	130	26.	U
120-12-7	Anthracene	ND	100	32.	U
191-24-2	Benzo(ghi)perylene	ND	130	20.	U
86-73-7	Fluorene	ND	170	16.	U
85-01-8	Phenanthrene	ND	100	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	19.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	130	23.	U
129-00-0	Pyrene	ND	100	16.	U
92-52-4	Biphenyl	ND	380	39.	U
106-47-8	4-Chloroaniline	ND	170	30.	U
88-74-4	2-Nitroaniline	ND	170	32.	U
99-09-2	3-Nitroaniline	ND	170	31.	U
100-01-6	4-Nitroaniline	ND	170	69.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-09
 Client ID : SB-5 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-09
 Sample Amount : 30.68 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 09:35
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 01:26
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 98
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	17.	U
98-86-2	Acetophenone	ND	170	21.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	32.	U
59-50-7	P-Chloro-M-Cresol	ND	170	25.	U
95-57-8	2-Chlorophenol	ND	170	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	27.	U
105-67-9	2,4-Dimethylphenol	ND	170	55.	U
88-75-5	2-Nitrophenol	ND	360	63.	U
100-02-7	4-Nitrophenol	ND	230	68.	U
51-28-5	2,4-Dinitrophenol	ND	800	78.	U
534-52-1	4,6-Dinitro-o-cresol	ND	430	80.	U
87-86-5	Pentachlorophenol	ND	130	37.	U
108-95-2	Phenol	ND	170	25.	U
95-48-7	2-Methylphenol	ND	170	26.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	240	26.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	32.	U
65-85-0	Benzole Acid	ND	540	170	U
100-51-6	Benzyl Alcohol	ND	170	51.	U
86-74-8	Carbazole	ND	170	16.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-01
 Client ID : SB-6 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-01
 Sample Amount : 30.94 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/06/16 10:00
 Date Received : 01/06/16
 Date Analyzed : 01/12/16 18:20
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 84
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	20.	U
120-82-1	1,2,4-Trichlorobenzene	ND	190	22.	U
118-74-1	Hexachlorobenzene	ND	120	22.	U UJ
111-44-4	Bis(2-chloroethyl)ether	ND	170	26.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
95-50-1	1,2-Dichlorobenzene	ND	190	34.	U
541-73-1	1,3-Dichlorobenzene	ND	190	33.	U
106-46-7	1,4-Dichlorobenzene	ND	190	34.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	51.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	190	38.	U
606-20-2	2,6-Dinitrotoluene	ND	190	33.	U
206-44-0	Fluoranthene	ND	120	22.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	29.	U UJ
108-60-1	Bis(2-chloroisopropyl)ether	ND	230	33.	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	210	19.	U
87-68-3	Hexachlorobutadiene	ND	190	28.	U
77-47-4	Hexachlorocyclopentadiene	ND	550	170	U
67-72-1	Hexachloroethane	ND	150	31.	U
78-59-1	Isophorone	ND	170	25.	U
91-20-3	Naphthalene	ND	190	23.	U
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	150	22.	U UJ
621-64-7	n-Nitrosodi-n-propylamine	ND	190	30.	U

JOM
 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 18:20
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-01	Analyst : JB
Sample Amount : 30.94 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	190	66.	U
85-68-7	Butyl benzyl phthalate	ND	190	48.	U
84-74-2	Di-n-butylphthalate	ND	190	36.	U
117-84-0	Di-n-octylphthalate	ND	190	65.	U
84-66-2	Diethyl phthalate	ND	190	18.	U
131-11-3	Dimethyl phthalate	ND	190	40.	U
56-55-3	Benzo(a)anthracene	ND	120	22.	U
50-32-8	Benzo(a)pyrene	ND	150	47.	U
205-99-2	Benzo(b)fluoranthene	ND	120	32.	U
207-08-9	Benzo(k)fluoranthene	ND	120	31.	U
218-01-9	Chrysene	ND	120	20.	U
208-96-8	Acenaphthylene	ND	150	30.	U
120-12-7	Anthracene	ND	120	38.	U
191-24-2	Benzo(ghi)perylene	ND	150	23.	U
86-73-7	Fluorene	ND	190	19.	U
85-01-8	Phenanthrene	ND	120	23.	U
53-70-3	Dibenzo(a,h)anthracene	ND	120	22.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	150	27.	U
129-00-0	Pyrene	ND	120	19.	U
92-52-4	Biphenyl	ND	440	45.	U
106-47-8	4-Chloroaniline	ND	190	35.	U
88-74-4	2-Nitroaniline	ND	190	37.	U
99-09-2	3-Nitroaniline	ND	190	36.	U
100-01-6	4-Nitroaniline	ND	190	80.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 18:20
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-01	Analyst : JB
Sample Amount : 30.94 g	Instrument ID : SV115.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	190	18.	U
91-57-6	2-Methylnaphthalene	ND	230	23.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	ND	190	24.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	36.	U
59-50-7	P-Chloro-M-Cresol	ND	190	29.	U
95-57-8	2-Chlorophenol	ND	190	23.	U
120-83-2	2,4-Dichlorophenol	ND	170	31.	U
105-67-9	2,4-Dimethylphenol	ND	190	63.	U
88-75-5	2-Nitrophenol	ND	420	72.	U
100-02-7	4-Nitrophenol	ND	270	78.	U
51-28-5	2,4-Dinitrophenol	ND	920	90.	U
534-52-1	4,6-Dinitro-o-cresol	ND	500	92.	U
87-86-5	Pentachlorophenol	ND	150	42.	U
108-95-2	Phenol	ND	190	29.	U
95-48-7	2-Methylphenol	ND	190	30.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	280	30.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	37.	U
65-85-0	Benzoic Acid	ND	620	190	U
100-51-6	Benzyl Alcohol	ND	190	59.	U
86-74-8	Carbazole	ND	190	19.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-02
 Client ID : SB-6 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-02
 Sample Amount : 30.69 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/06/16 10:10
 Date Received : 01/06/16
 Date Analyzed : 01/12/16 18:46
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.1
 GC Column : RTX-5
 %Solids : 97
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	19.	U
118-74-1	Hexachlorobenzene	ND	100	19.	U UJ
111-44-4	Bis(2-chloroethyl)ether	ND	150	23.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
95-50-1	1,2-Dichlorobenzene	ND	170	30.	U
541-73-1	1,3-Dichlorobenzene	ND	170	29.	U
106-46-7	1,4-Dichlorobenzene	ND	170	29.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	45.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	170	34.	U
606-20-2	2,6-Dinitrotoluene	ND	170	29.	U
206-44-0	Fluoranthene	ND	100	19.	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	26.	U UJ
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	29.	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	170	25.	U
77-47-4	Hexachlorocyclopentadiene	ND	480	150	U
67-72-1	Hexachloroethane	ND	130	27.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	170	20.	U
98-95-3	Nitrobenzene	ND	150	25.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	130	19.	U UJ
621-64-7	n-Nitrosodi-n-propylamine	ND	170	26.	U

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Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-02	Date Collected : 01/06/16 10:10
Client ID : SB-6 (12-14)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 18:46
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-02	Analyst : JB
Sample Amount : 30.69 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 97
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	170	58.	U
85-68-7	Butyl benzyl phthalate	ND	170	42.	U
84-74-2	Di-n-butylphthalate	ND	170	32.	U
117-84-0	Di-n-octylphthalate	ND	170	57.	U
84-66-2	Diethyl phthalate	ND	170	16.	U
131-11-3	Dimethyl phthalate	ND	170	35.	U
56-55-3	Benzo(a)anthracene	ND	100	19.	U
50-32-8	Benzo(a)pyrene	ND	130	41.	U
205-99-2	Benzo(b)fluoranthene	ND	100	28.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	17.	U
208-96-8	Acenaphthylene	ND	130	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	130	20.	U
86-73-7	Fluorene	ND	170	16.	U
85-01-8	Phenanthrene	ND	100	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	19.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	130	23.	U
129-00-0	Pyrene	ND	100	17.	U
92-52-4	Biphenyl	ND	380	39.	U
106-47-8	4-Chloroaniline	ND	170	30.	U
88-74-4	2-Nitroaniline	ND	170	32.	U
99-09-2	3-Nitroaniline	ND	170	32.	U
100-01-6	4-Nitroaniline	ND	170	70.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-02
 Client ID : SB-6 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-02
 Sample Amount : 30.69 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/06/16 10:10
 Date Received : 01/06/16
 Date Analyzed : 01/12/16 18:46
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 97
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	18.	U
98-86-2	Acetophenone	ND	170	21.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	32.	U
59-50-7	P-Chloro-M-Cresol	ND	170	25.	U
95-57-8	2-Chlorophenol	ND	170	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	27.	U
105-67-9	2,4-Dimethylphenol	ND	170	55.	U
88-75-5	2-Nitrophenol	ND	360	63.	U
100-02-7	4-Nitrophenol	ND	240	68.	U
51-28-5	2,4-Dinitrophenol	ND	810	78.	U
534-52-1	4,6-Dinitro-o-cresol	ND	440	81.	U
87-86-5	Pentachlorophenol	ND	130	37.	U
108-95-2	Phenol	ND	170	25.	U
95-48-7	2-Methylphenol	ND	170	26.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	240	26.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	32.	U
65-85-0	Benzoic Acid	ND	540	170	U
100-51-6	Benzyl Alcohol	ND	170	51.	U
86-74-8	Carbazole	ND	170	16.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 01:53
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-10	Analyst : JB
Sample Amount : 30.33 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 86
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	20.	U
120-82-1	1,2,4-Trichlorobenzene	ND	190	22.	U
118-74-1	Hexachlorobenzene	ND	120	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	26.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
95-50-1	1,2-Dichlorobenzene	ND	190	34.	U
541-73-1	1,3-Dichlorobenzene	ND	190	33.	U
106-46-7	1,4-Dichlorobenzene	ND	190	33.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	51.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	190	38.	U
606-20-2	2,6-Dinitrotoluene	ND	190	33.	U
206-44-0	Fluoranthene	160	120	22.	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	29.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	230	33.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	210	19.	U
87-68-3	Hexachlorobutadiene	ND	190	28.	U
77-47-4	Hexachlorocyclopentadiene	ND	550	170	U
67-72-1	Hexachloroethane	ND	150	31.	U
78-59-1	Isophorone	ND	170	25.	U
91-20-3	Naphthalene	ND	190	23.	U
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	150	22.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	190	30.	U

JOM 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-10
 Client ID : SB-7 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-10
 Sample Amount : 30.33 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:00
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 01:53
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 86
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	190	66.	U
85-68-7	Butyl benzyl phthalate	ND	190	48.	U
84-74-2	Di-n-butylphthalate	ND	190	36.	U
117-84-0	Di-n-octylphthalate	ND	190	65.	U
84-66-2	Diethyl phthalate	ND	190	18.	U
131-11-3	Dimethyl phthalate	ND	190	40.	U
56-55-3	Benzo(a)anthracene	68	120	22.	J
50-32-8	Benzo(a)pyrene	48	150	47.	J
205-99-2	Benzo(b)fluoranthene	63	120	32.	J
207-08-9	Benzo(k)fluoranthene	ND	120	31.	U
218-01-9	Chrysene	55	120	20.	J
208-96-8	Acenaphthylene	ND	150	30.	U
120-12-7	Anthracene	ND	120	37.	U
191-24-2	Benzo(ghi)perylene	32	150	22.	J
86-73-7	Fluorene	ND	190	19.	U
85-01-8	Phenanthrene	130	120	23.	
53-70-3	Dibenzo(a,h)anthracene	ND	120	22.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	35	150	27.	J
129-00-0	Pyrene	120	120	19.	
92-52-4	Biphenyl	ND	440	44.	U
106-47-8	4-Chloroaniline	ND	190	35.	U
88-74-4	2-Nitroaniline	ND	190	37.	U
99-09-2	3-Nitroaniline	ND	190	36.	U
100-01-6	4-Nitroaniline	ND	190	79.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 01:53
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-10	Analyst : JB
Sample Amount : 30.33 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 86
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	190	18.	U
91-57-6	2-Methylnaphthalene	ND	230	23.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	ND	190	24.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	36.	U
59-50-7	P-Chloro-M-Cresol	ND	190	28.	U
95-57-8	2-Chlorophenol	ND	190	23.	U
120-83-2	2,4-Dichlorophenol	ND	170	31.	U
105-67-9	2,4-Dimethylphenol	ND	190	63.	U
88-75-5	2-Nitrophenol	ND	410	72.	U
100-02-7	4-Nitrophenol	ND	270	78.	U
51-28-5	2,4-Dinitrophenol	ND	920	89.	U
534-52-1	4,6-Dintro-o-cresol	ND	500	92.	U
87-86-5	Pentachlorophenol	ND	150	42.	U
108-95-2	Phenol	ND	190	29.	U
95-48-7	2-Methylphenol	ND	190	30.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	280	30.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	37.	U
65-85-0	Benzoic Acid	ND	620	190	U
100-51-6	Benzyl Alcohol	ND	190	59.	U
86-74-8	Carbazole	ND	190	19.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-12
 Client ID : SB-8 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-12
 Sample Amount : 30.27 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:30
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 22:40
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 98
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	130	17.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	19.	U
118-74-1	Hexachlorobenzene	ND	100	19.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	23.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
95-50-1	1,2-Dichlorobenzene	ND	170	30.	U
541-73-1	1,3-Dichlorobenzene	ND	170	29.	U
106-46-7	1,4-Dichlorobenzene	ND	170	29.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	45.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	170	34.	U
606-20-2	2,6-Dinitrotoluene	ND	170	29.	U
206-44-0	Fluoranthene	30	100	19.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	26.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	29.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	170	25.	U
77-47-4	Hexachlorocyclopentadiene	ND	480	150	U
67-72-1	Hexachloroethane	ND	130	27.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	170	20.	U
98-95-3	Nitrobenzene	ND	150	25.	U
86-30-6	NitrosoDIPhenylAmine(NDPA)/DPA	ND	130	19.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	26.	U

JOF 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 22:40
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-12	Analyst : JB
Sample Amount : 30.27 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	170	58.	U
85-68-7	Butyl benzyl phthalate	ND	170	42.	U
84-74-2	Di-n-butylphthalate	ND	170	32.	U
117-84-0	Di-n-octylphthalate	ND	170	57.	U
84-66-2	Diethyl phthalate	ND	170	16.	U
131-11-3	Dimethyl phthalate	ND	170	35.	U
56-55-3	Benzo(a)anthracene	19	100	19.	J
50-32-8	Benzo(a)pyrene	ND	130	41.	U
205-99-2	Benzo(b)fluoranthene	ND	100	28.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	ND	100	18.	U
208-96-8	Acenaphthylene	ND	130	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	130	20.	U
86-73-7	Fluorene	ND	170	16.	U
85-01-8	Phenanthrene	ND	100	20.	U
53-70-3	Dibenzo(a,h)anthracene	ND	100	19.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	130	23.	U
129-00-0	Pyrene	24	100	17.	J
92-52-4	Biphenyl	ND	380	39.	U
106-47-8	4-Chloroaniline	ND	170	31.	U
88-74-4	2-Nitroaniline	ND	170	32.	U
99-09-2	3-Nitroaniline	ND	170	32.	U
100-01-6	4-Nitroaniline	ND	170	70.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 22:40
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-12	Analyst : JB
Sample Amount : 30.27 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	200	20.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	18.	U
98-86-2	Acetophenone	ND	170	21.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	32.	U
59-50-7	P-Chloro-M-Cresol	ND	170	25.	U
95-57-8	2-Chlorophenol	ND	170	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	27.	U
105-67-9	2,4-Dimethylphenol	ND	170	56.	U
88-75-5	2-Nitrophenol	ND	360	63.	U
100-02-7	4-Nitrophenol	ND	240	69.	U
51-28-5	2,4-Dinitrophenol	ND	810	78.	U
534-52-1	4,6-Dinitro-o-cresol	ND	440	81.	U
87-86-5	Pentachlorophenol	ND	130	37.	U
108-95-2	Phenol	ND	170	25.	U
95-48-7	2-Methylphenol	ND	170	26.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	240	26.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	32.	U
65-85-0	Benzoic Acid	ND	540	170	U
100-51-6	Benzyl Alcohol	ND	170	52.	U
86-74-8	Carbazole	ND	170	16.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-14
 Client ID : SB-9 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-14
 Sample Amount : 30.5 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:45
 Date Received : 01/07/16
 Date Analyzed : 01/11/16 22:55
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : RC
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 91
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	19.	U
120-82-1	1,2,4-Trichlorobenzene	ND	180	21.	U
118-74-1	Hexachlorobenzene	ND	110	20.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	24.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
95-50-1	1,2-Dichlorobenzene	ND	180	32.	U
541-73-1	1,3-Dichlorobenzene	ND	180	31.	U
106-46-7	1,4-Dichlorobenzene	ND	180	32.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	48.	U
121-14-2	2,4-Dinitrotoluene	ND	180	36.	U
606-20-2	2,6-Dinitrotoluene	ND	180	31.	U UJ
206-44-0	Fluoranthene	36	110	21.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	19.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	28.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	31.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	190	18.	U
87-68-3	Hexachlorobutadiene	ND	180	26.	U
77-47-4	Hexachlorocyclopentadiene	ND	520	160	U UJ
67-72-1	Hexachloroethane	ND	140	29.	U
78-59-1	Isophorone	ND	160	23.	U
91-20-3	Naphthalene	ND	180	22.	U
98-95-3	Nitrobenzene	ND	160	27.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	140	20.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U

RC
 2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-14	Date Collected : 01/07/16 10:45
Client ID : SB-9 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 22:55
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-14	Analyst : RC
Sample Amount : 30.5 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	180	62.	U VJ
85-68-7	Butyl benzyl phthalate	ND	180	45.	U
84-74-2	Di-n-butylphthalate	ND	180	34.	U
117-84-0	Di-n-octylphthalate	ND	180	61.	U
84-66-2	Diethyl phthalate	ND	180	17.	U
131-11-3	Dimethyl phthalate	ND	180	38.	U
56-55-3	Benzo(a)anthracene	31	110	20.	J
50-32-8	Benzo(a)pyrene	ND	140	44.	U
205-99-2	Benzo(b)fluoranthene	41	110	30.	J J+
207-08-9	Benzo(k)fluoranthene	ND	110	29.	U
218-01-9	Chrysene	30	110	19.	J J+
208-96-8	Acenaphthylene	ND	140	28.	U
120-12-7	Anthracene	ND	110	35.	U
191-24-2	Benzo(ghi)perylene	28	140	21.	J
86-73-7	Fluorene	ND	180	18.	U
85-01-8	Phenanthrene	ND	110	22.	U
53-70-3	Dibenzo(a,h)anthracene	ND	110	21.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	29	140	25.	J
129-00-0	Pyrene	33	110	18.	J
92-52-4	Biphenyl	ND	410	42.	U
106-47-8	4-Chloroaniline	ND	180	33.	U
88-74-4	2-Nitroaniline	ND	180	35.	U
99-09-2	3-Nitroaniline	ND	180	34.	U
100-01-6	4-Nitroaniline	ND	180	75.	U

RC
2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-14
 Client ID : SB-9 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-14
 Sample Amount : 30.5 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:45
 Date Received : 01/07/16
 Date Analyzed : 01/11/16 22:55
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : RC
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 91
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	180	17.	U
91-57-6	2-Methylnaphthalene	ND	220	22.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	22.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	34.	U
59-50-7	P-Chloro-M-Cresol	ND	180	27.	U
95-57-8	2-Chlorophenol	ND	180	21.	U
120-83-2	2,4-Dichlorophenol	ND	160	29.	U
105-67-9	2,4-Dimethylphenol	ND	180	60.	U
88-75-5	2-Nitrophenol	ND	390	68.	U
100-02-7	4-Nitrophenol	ND	250	74.	U
51-28-5	2,4-Dinitrophenol	ND	870	84.	U
534-52-1	4,6-Dinitro-o-cresol	ND	470	87.	U
87-86-5	Pentachlorophenol	ND	140	40.	U
108-95-2	Phenol	ND	180	27.	U
95-48-7	2-Methylphenol	ND	180	28.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	260	28.	U
95-95-4	2,4,5-Trichlorophenol	ND	180	34.	U
65-85-0	Benzoic Acid	ND	580	180	U <i>UJ</i>
100-51-6	Benzyl Alcohol	ND	180	55.	U
86-74-8	Carbazole	ND	180	18.	U

RC
 2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-19
 Client ID : SB-10 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-19
 Sample Amount : 30.55 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 08:50
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 18:44
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 91
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	1000	140	18.	
120-82-1	1,2,4-Trichlorobenzene	ND	180	20.	U
118-74-1	Hexachlorobenzene	ND	110	20.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	24.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
95-50-1	1,2-Dichlorobenzene	ND	180	32.	U
541-73-1	1,3-Dichlorobenzene	ND	180	31.	U
106-46-7	1,4-Dichlorobenzene	ND	180	31.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	48.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	180	36.	U
606-20-2	2,6-Dinitrotoluene	ND	180	31.	U
206-44-0	Fluoranthene	7300	110	20.	E R
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	19.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	27.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	210	30.	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	190	18.	U
87-68-3	Hexachlorobutadiene	ND	180	26.	U
77-47-4	Hexachlorocyclopentadiene	ND	510	160	U UJ
67-72-1	Hexachloroethane	ND	140	29.	U
78-59-1	Isophorone	ND	160	23.	U
91-20-3	Naphthalene	1200	180	22.	
98-95-3	Nitrobenzene	ND	160	26.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	140	20.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U

JAN 21 2016



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 18:44
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-19	Analyst : JB
Sample Amount : 30.55 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	180	62.	U
85-68-7	Butyl benzyl phthalate	ND	180	45.	U
84-74-2	Di-n-butylphthalate	ND	180	34.	U
117-84-0	Di-n-octylphthalate	ND	180	61.	U
84-66-2	Diethyl phthalate	ND	180	16.	U
131-11-3	Dimethyl phthalate	ND	180	38.	U
56-55-3	Benzo(a)anthracene	3400	110	20.	
50-32-8	Benzo(a)pyrene	3100	140	44.	
205-99-2	Benzo(b)fluoranthene	4500	110	30.	
207-08-9	Benzo(k)fluoranthene	1500	110	29.	
218-01-9	Chrysene	3500	110	19.	
208-96-8	Acenaphthylene	270	140	28.	
120-12-7	Anthracene	1200	110	35.	
191-24-2	Benzo(ghi)perylene	1700	140	21.	
86-73-7	Fluorene	840	180	17.	
85-01-8	Phenanthrene	7100	110	22.	
53-70-3	Dibenzo(a,h)anthracene	530	110	21.	
193-39-5	Indeno(1,2,3-cd)Pyrene	2000	140	25.	
129-00-0	Pyrene	5700	110	18.	
92-52-4	Biphenyl	100	410	42.	J
106-47-8	4-Chloroaniline	ND	180	32.	U
88-74-4	2-Nitroaniline	ND	180	34.	U
99-09-2	3-Nitroaniline	ND	180	34.	U
100-01-6	4-Nitroaniline	ND	180	74.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-19
 Client ID : SB-10 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-19
 Sample Amount : 30.55 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 08:50
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 18:44
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 91
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	710	180	17.	
91-57-6	2-Methylnaphthalene	420	210	22.	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	22.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	34.	U
59-50-7	P-Chloro-M-Cresol	ND	180	27.	U
95-57-8	2-Chlorophenol	ND	180	21.	U
120-83-2	2,4-Dichlorophenol	ND	160	29.	U
105-67-9	2,4-Dimethylphenol	ND	180	59.	U
88-75-5	2-Nitrophenol	ND	390	67.	U
100-02-7	4-Nitrophenol	ND	250	73.	U
51-28-5	2,4-Dinitrophenol	ND	860	83.	U
534-52-1	4,6-Dinitro-o-cresol	ND	460	86.	U
87-86-5	Pentachlorophenol	ND	140	39.	U
108-95-2	Phenol	ND	180	27.	U
95-48-7	2-Methylphenol	ND	180	28.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	260	28.	U
95-95-4	2,4,5-Trichlorophenol	ND	180	34.	U
65-85-0	Benzoic Acid	ND	580	180	U UJ
100-51-6	Benzyl Alcohol	ND	180	55.	U
86-74-8	Carbazole	1000	180	17.	

JBR
 2/6/16



Form 1 SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-19D	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2) <i>DL</i>	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 19:36
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 2
Lab File ID : 00381-19	Analyst : JB
Sample Amount : 30.55 g	Instrument ID : SV103.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
206-44-0	Fluoranthene	8700	210	41.	<i>D</i>

JBR
2/8/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-20	Date Collected : 01/11/16 09:10
Client ID : SB-10 (12-14)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:44
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-20	Analyst : JB
Sample Amount : 30.31 g	Instrument ID : SV115.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 96
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	140	18.	U
120-82-1	1,2,4-Trichlorobenzene	ND	170	20.	U
118-74-1	Hexachlorobenzene	ND	100	19.	U
111-44-4	Bis(2-chloroethyl)ether	ND	150	23.	U
91-58-7	2-Chloronaphthalene	ND	170	17.	U
95-50-1	1,2-Dichlorobenzene	ND	170	31.	U
541-73-1	1,3-Dichlorobenzene	ND	170	30.	U
106-46-7	1,4-Dichlorobenzene	ND	170	30.	U
91-94-1	3,3'-Dichlorobenzidine	ND	170	46.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	170	34.	U
606-20-2	2,6-Dinitrotoluene	ND	170	29.	U
206-44-0	Fluoranthene	50	100	20.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	18.	U
101-55-3	4-Bromophenyl phenyl ether	ND	170	26.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	200	29.	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	180	17.	U
87-68-3	Hexachlorobutadiene	ND	170	25.	U
77-47-4	Hexachlorocyclopentadiene	ND	490	160	U UJ
67-72-1	Hexachloroethane	ND	140	28.	U
78-59-1	Isophorone	ND	150	22.	U
91-20-3	Naphthalene	ND	170	21.	U
98-95-3	Nitrobenzene	ND	150	25.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	140	20.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	170	26.	U

JOF 2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-20
 Client ID : SB-10 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-20
 Sample Amount : 30.31 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 09:10
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 15:44
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 96
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	170	59.	U
85-68-7	Butyl benzyl phthalate	ND	170	43.	U
84-74-2	Di-n-butylphthalate	ND	170	32.	U
117-84-0	Di-n-octylphthalate	ND	170	58.	U
84-66-2	Diethyl phthalate	ND	170	16.	U
131-11-3	Dimethyl phthalate	ND	170	36.	U
56-55-3	Benzo(a)anthracene	27	100	19.	J
50-32-8	Benzo(a)pyrene	ND	140	42.	U
205-99-2	Benzo(b)fluoranthene	ND	100	29.	U
207-08-9	Benzo(k)fluoranthene	ND	100	27.	U
218-01-9	Chrysene	22	100	18.	J
208-96-8	Acenaphthylene	ND	140	26.	U
120-12-7	Anthracene	ND	100	33.	U
191-24-2	Benzo(ghi)perylene	ND	140	20.	U
86-73-7	Fluorene	ND	170	17.	U
85-01-8	Phenanthrene	46	100	21.	J
53-70-3	Dibenzo(a,h)anthracene	ND	100	20.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	140	24.	U
129-00-0	Pyrene	40	100	17.	J
92-52-4	Biphenyl	ND	390	40.	U
106-47-8	4-Chloroaniline	ND	170	31.	U
88-74-4	2-Nitroaniline	ND	170	33.	U
99-09-2	3-Nitroaniline	ND	170	32.	U
100-01-6	4-Nitroaniline	ND	170	71.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-20
 Client ID : SB-10 (12-14)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-20
 Sample Amount : 30.31 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 09:10
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 15:44
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 96
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	170	16.	U
91-57-6	2-Methylnaphthalene	ND	200	21.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	18.	U
98-86-2	Acetophenone	ND	170	21.	U
88-06-2	2,4,6-Trichlorophenol	ND	100	32.	U
59-50-7	P-Chloro-M-Cresol	ND	170	26.	U
95-57-8	2-Chlorophenol	ND	170	20.	U
120-83-2	2,4-Dichlorophenol	ND	150	28.	U
105-67-9	2,4-Dimethylphenol	ND	170	57.	U
88-75-5	2-Nitrophenol	ND	370	64.	U
100-02-7	4-Nitrophenol	ND	240	70.	U
51-28-5	2,4-Dinitrophenol	ND	820	80.	U
534-52-1	4,6-Dinitro-o-cresol	ND	450	82.	U
87-86-5	Pentachlorophenol	ND	140	38.	U
108-95-2	Phenol	ND	170	26.	U
95-48-7	2-Methylphenol	ND	170	27.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	250	27.	U
95-95-4	2,4,5-Trichlorophenol	ND	170	33.	U
65-85-0	Benzolc Acid	ND	560	170	U UJ
100-51-6	Benzyl Alcohol	ND	170	52.	U
86-74-8	Carbazole	ND	170	17.	U

JOM 21 6/11/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-07
 Client ID : SB-11 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-07
 Sample Amount : 30.18 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 07:50
 Date Received : 01/07/16
 Date Analyzed : 01/13/16 03:16
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.I
 GC Column : RTX-5
 %Solids : 81
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	160	21.	U
120-82-1	1,2,4-Trichlorobenzene	ND	200	23.	U
118-74-1	Hexachlorobenzene	ND	120	23.	U
111-44-4	Bis(2-chloroethyl)ether	ND	180	28.	U
91-58-7	2-Chloronaphthalene	ND	200	20.	U
95-50-1	1,2-Dichlorobenzene	ND	200	37.	U
541-73-1	1,3-Dichlorobenzene	ND	200	35.	U
106-46-7	1,4-Dichlorobenzene	ND	200	36.	U
91-94-1	3,3'-Dichlorobenzidine	ND	200	55.	U VJ
121-14-2	2,4-Dinitrotoluene	ND	200	41.	U
606-20-2	2,6-Dinitrotoluene	ND	200	35.	U
206-44-0	Fluoranthene	97	120	24.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	200	22.	U
101-55-3	4-Bromophenyl phenyl ether	ND	200	31.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	250	35.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	220	20.	U
87-68-3	Hexachlorobutadiene	ND	200	30.	U
77-47-4	Hexachlorocyclopentadiene	ND	590	180	U
67-72-1	Hexachloroethane	ND	160	33.	U
78-59-1	Isophorone	ND	180	27.	U
91-20-3	Naphthalene	ND	200	25.	U
98-95-3	Nitrobenzene	ND	180	30.	U
86-30-6	NitrosoDIPhenylAmine(NDPA)/DPA	ND	160	23.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	200	32.	U

for 2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 03:16
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-07	Analyst : JB
Sample Amount : 30.18 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 81
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	200	71.	U
85-68-7	Butyl benzyl phthalate	ND	200	52.	U
84-74-2	Di-n-butylphthalate	ND	200	39.	U
117-84-0	Di-n-octylphthalate	ND	200	70.	U
84-66-2	Diethyl phthalate	ND	200	19.	U
131-11-3	Dimethyl phthalate	ND	200	43.	U
56-55-3	Benzo(a)anthracene	59	120	23.	J
50-32-8	Benzo(a)pyrene	ND	160	50.	U
205-99-2	Benzo(b)fluoranthene	50	120	34.	J
207-08-9	Benzo(k)fluoranthene	ND	120	33.	U
218-01-9	Chrysene	49	120	21.	J
208-96-8	Acenaphthylene	ND	160	32.	U
120-12-7	Anthracene	ND	120	40.	U
191-24-2	Benzo(ghi)perylene	35	160	24.	J
86-73-7	Fluorene	ND	200	20.	U
85-01-8	Phenanthrene	71	120	25.	J
53-70-3	Dibenzo(a,h)anthracene	ND	120	24.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	30	160	29.	J
129-00-0	Pyrene	110	120	20.	J
92-52-4	Biphenyl	ND	470	48.	U
106-47-8	4-Chloroaniline	ND	200	37.	U
88-74-4	2-Nitroaniline	ND	200	40.	U
99-09-2	3-Nitroaniline	ND	200	39.	U
100-01-6	4-Nitroaniline	ND	200	85.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/13/16 03:16
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-07	Analyst : JB
Sample Amount : 30.18 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 81
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	200	19.	U
91-57-6	2-Methylnaphthalene	ND	250	25.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	21.	U
98-86-2	Acetophenone	ND	200	25.	U
88-06-2	2,4,6-Trichlorophenol	ND	120	39.	U
59-50-7	P-Chloro-M-Cresol	ND	200	30.	U
95-57-8	2-Chlorophenol	ND	200	24.	U
120-83-2	2,4-Dichlorophenol	ND	180	33.	U
105-67-9	2,4-Dimethylphenol	ND	200	68.	U
88-75-5	2-Nitrophenol	ND	440	77.	U
100-02-7	4-Nitrophenol	ND	290	84.	U
51-28-5	2,4-Dinitrophenol	ND	980	96.	U
534-52-1	4,6-Dinitro-o-cresol	ND	530	98.	U
87-86-5	Pentachlorophenol	ND	160	45.	U
108-95-2	Phenol	ND	200	31.	U
95-48-7	2-Methylphenol	ND	200	32.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	300	32.	U
95-95-4	2,4,5-Trichlorophenol	ND	200	39.	U
65-85-0	Benzoic Acid	ND	660	210	U
100-51-6	Benzyl Alcohol	ND	200	63.	U
86-74-8	Carbazole	ND	200	20.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-21
 Client ID : SB-12 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-21
 Sample Amount : 30.46 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 09:30
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 19:09
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.I
 GC Column : RTX-5
 %Solids : 91
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	120	140	19.	J
120-82-1	1,2,4-Trichlorobenzene	ND	180	21.	U
118-74-1	Hexachlorobenzene	ND	110	20.	U
111-44-4	Bis(2-chloroethyl)ether	ND	160	24.	U
91-58-7	2-Chloronaphthalene	ND	180	18.	U
95-50-1	1,2-Dichlorobenzene	ND	180	32.	U
541-73-1	1,3-Dichlorobenzene	ND	180	31.	U
106-46-7	1,4-Dichlorobenzene	ND	180	32.	U
91-94-1	3,3'-Dichlorobenzidine	ND	180	48.	U UJ
121-14-2	2,4-Dinitrotoluene	ND	180	36.	U
606-20-2	2,6-Dinitrotoluene	ND	180	31.	U
206-44-0	Fluoranthene	9500	110	21.	E R
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	19.	U
101-55-3	4-Bromophenyl phenyl ether	ND	180	28.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	220	31.	U UJ
111-91-1	Bis(2-chloroethoxy)methane	ND	200	18.	U
87-68-3	Hexachlorobutadiene	ND	180	26.	U
77-47-4	Hexachlorocyclopentadiene	ND	520	160	U UJ
67-72-1	Hexachloroethane	ND	140	29.	U
78-59-1	Isophorone	ND	160	24.	U
91-20-3	Naphthalene	69	180	22.	J
98-95-3	Nitrobenzene	ND	160	27.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	140	21.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	180	28.	U

JB
 1/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-21
 Client ID : SB-12 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-21
 Sample Amount : 30.46 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/11/16 09:30
 Date Received : 01/11/16
 Date Analyzed : 01/14/16 19:09
 Date Extracted : 01/13/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV115.1
 GC Column : RTX-5
 %Solids : 91
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	180	63.	U
85-68-7	Butyl benzyl phthalate	ND	180	46.	U
84-74-2	Di-n-butylphthalate	ND	180	34.	U
117-84-0	Di-n-octylphthalate	ND	180	62.	U
84-66-2	Diethyl phthalate	ND	180	17.	U
131-11-3	Dimethyl phthalate	ND	180	38.	U
56-55-3	Benzo(a)anthracene	5100	110	20.	
50-32-8	Benzo(a)pyrene	4100	140	44.	
205-99-2	Benzo(b)fluoranthene	5600	110	30.	
207-08-9	Benzo(k)fluoranthene	2000	110	29.	
218-01-9	Chrysene	4000	110	19.	
208-96-8	Acenaphthylene	380	140	28.	
120-12-7	Anthracene	1000	110	35.	
191-24-2	Benzo(ghi)perylene	2000	140	21.	
86-73-7	Fluorene	170	180	18.	J
85-01-8	Phenanthrene	3000	110	22.	
53-70-3	Dibenzo(a,h)anthracene	670	110	21.	
193-39-5	Indeno(1,2,3-cd)Pyrene	2400	140	25.	
129-00-0	Pyrene	8200	110	18.	E R
92-52-4	Biphenyl	ND	410	42.	U
106-47-8	4-Chloroaniline	ND	180	33.	U
88-74-4	2-Nitroaniline	ND	180	35.	U
99-09-2	3-Nitroaniline	ND	180	34.	U
100-01-6	4-Nitroaniline	ND	180	75.	U

JON 2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-21	Date Collected : 01/11/16 09:30
Client ID : SB-12 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 19:09
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-21	Analyst : JB
Sample Amount : 30.46 g	Instrument ID : SV115.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	49	180	17.	J
91-57-6	2-Methylnaphthalene	28	220	22.	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	19.	U
98-86-2	Acetophenone	ND	180	22.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	34.	U
59-50-7	P-Chloro-M-Cresol	ND	180	27.	U
95-57-8	2-Chlorophenol	ND	180	21.	U
120-83-2	2,4-Dichlorophenol	ND	160	29.	U
105-67-9	2,4-Dimethylphenol	ND	180	60.	U
88-75-5	2-Nitrophenol	ND	390	68.	U
100-02-7	4-Nitrophenol	ND	250	74.	U
51-28-5	2,4-Dinitrophenol	ND	870	84.	U
534-52-1	4,6-Dinitro-o-cresol	ND	470	87.	U
87-86-5	Pentachlorophenol	ND	140	40.	U
108-95-2	Phenol	ND	180	27.	U
95-48-7	2-Methylphenol	ND	180	28.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	64	260	28.	J
95-95-4	2,4,5-Trichlorophenol	ND	180	35.	U
65-85-0	Benzoic Acid	ND	590	180	U UJ
100-51-6	Benzyl Alcohol	ND	180	56.	U
86-74-8	Carbazole	210	180	18.	

805 2/16/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-21D	Date Collected : 01/11/16 09:30
Client ID : SB-12 (0-2) <i>DL</i>	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 20:01
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8270D	Dilution Factor : 2
Lab File ID : 00381-21	Analyst : JB
Sample Amount : 30.46 g	Instrument ID : SV103.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
206-44-0	Fluoranthene	11000	220	42.	<i>D</i>
129-00-0	Pyrene	9000	220	36.	<i>D</i>

SOT 2/6/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-11	Date Collected : 01/07/16 10:10
Client ID : SB-13 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 22:12
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-11	Analyst : JB
Sample Amount : 30.06 g	Instrument ID : GCMS7.I
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	150	20.	U
120-82-1	1,2,4-Trichlorobenzene	ND	190	22.	U
118-74-1	Hexachlorobenzene	ND	110	21.	U
111-44-4	Bis(2-chloroethyl)ether	ND	170	26.	U
91-58-7	2-Chloronaphthalene	ND	190	19.	U
95-50-1	1,2-Dichlorobenzene	ND	190	34.	U
541-73-1	1,3-Dichlorobenzene	ND	190	33.	U
106-46-7	1,4-Dichlorobenzene	ND	190	33.	U
91-94-1	3,3'-Dichlorobenzidine	ND	190	51.	U ✓ U
121-14-2	2,4-Dinitrotoluene	ND	190	38.	U
606-20-2	2,6-Dinitrotoluene	ND	190	33.	U
206-44-0	Fluoranthene	90	110	22.	J
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	20.	U
101-55-3	4-Bromophenyl phenyl ether	ND	190	29.	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	230	32.	U
111-91-1	Bis(2-chloroethoxy)methane	ND	200	19.	U
87-68-3	Hexachlorobutadiene	ND	190	28.	U
77-47-4	Hexachlorocyclopentadiene	ND	540	170	U
67-72-1	Hexachloroethane	ND	150	31.	U
78-59-1	Isophorone	ND	170	25.	U
91-20-3	Naphthalene	ND	190	23.	U
98-95-3	Nitrobenzene	ND	170	28.	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	150	22.	U
621-64-7	n-Nitrosodi-n-propylamine	ND	190	29.	U

8011 21 6/11/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-11
 Client ID : SB-13 (0-2)
 Sample Location : QUEENS, NY
 Sample Matrix : SOIL
 Analytical Method : 1,8270D
 Lab File ID : 00381-11
 Sample Amount : 30.06 g
 Extraction Method : EPA 3546
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/07/16 10:10
 Date Received : 01/07/16
 Date Analyzed : 01/12/16 22:12
 Date Extracted : 01/10/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : GCMS7.1
 GC Column : RTX-5
 %Solids : 87
 Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	190	66.	U
85-68-7	Butyl benzyl phthalate	ND	190	48.	U
84-74-2	Di-n-butylphthalate	ND	190	36.	U
117-84-0	Di-n-octylphthalate	ND	190	65.	U
84-66-2	Diethyl phthalate	ND	190	18.	U
131-11-3	Dimethyl phthalate	ND	190	40.	U
56-55-3	Benzo(a)anthracene	58	110	21.	J
50-32-8	Benzo(a)pyrene	58	150	46.	J
205-99-2	Benzo(b)fluoranthene	74	110	32.	J
207-08-9	Benzo(k)fluoranthene	ND	110	30.	U
218-01-9	Chrysene	53	110	20.	J
208-96-8	Acenaphthylene	ND	150	29.	U
120-12-7	Anthracene	ND	110	37.	U
191-24-2	Benzo(ghi)perylene	38	150	22.	J
86-73-7	Fluorene	ND	190	18.	U
85-01-8	Phenanthrene	49	110	23.	J
53-70-3	Dibenzo(a,h)anthracene	ND	110	22.	U
193-39-5	Indeno(1,2,3-cd)Pyrene	49	150	26.	J
129-00-0	Pyrene	80	110	19.	J
92-52-4	Biphenyl	ND	430	44.	U
106-47-8	4-Chloroaniline	ND	190	35.	U
88-74-4	2-Nitroaniline	ND	190	37.	U
99-09-2	3-Nitroaniline	ND	190	36.	U
100-01-6	4-Nitroaniline	ND	190	79.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-11	Date Collected : 01/07/16 10:10
Client ID : SB-13 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 22:12
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-11	Analyst : JB
Sample Amount : 30.06 g	Instrument ID : GCMS7.1
Extraction Method : EPA 3546	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	190	18.	U
91-57-6	2-Methylnaphthalene	ND	230	23.	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	20.	U
98-86-2	Acetophenone	ND	190	24.	U
88-06-2	2,4,6-Trichlorophenol	ND	110	36.	U
59-50-7	P-Chloro-M-Cresol	ND	190	28.	U
95-57-8	2-Chlorophenol	ND	190	22.	U
120-83-2	2,4-Dichlorophenol	ND	170	31.	U
105-67-9	2,4-Dimethylphenol	ND	190	63.	U
88-75-5	2-Nitrophenol	ND	410	72.	U
100-02-7	4-Nitrophenol	ND	270	78.	U
51-28-5	2,4-Dinitrophenol	ND	910	89.	U
534-52-1	4,6-Dinitro-o-cresol	ND	490	91.	U
87-86-5	Pentachlorophenol	ND	150	42.	U
108-95-2	Phenol	ND	190	29.	U
95-48-7	2-Methylphenol	ND	190	29.	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	270	30.	U
95-95-4	2,4,5-Trichlorophenol	ND	190	36.	U
65-85-0	Benzoic Acid	ND	620	190	U
100-51-6	Benzyl Alcohol	ND	190	58.	U
86-74-8	Carbazole	ND	190	18.	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-05	Date Collected : 01/06/16 12:50
Client ID : FIELD BLANK-1	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/18/16 14:22
Sample Matrix : WATER	Date Extracted : 01/08/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-05	Analyst : JB
Sample Amount : 1000 ml	Instrument ID : SV103.1
Extraction Method : EPA 3510C	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	2.0	0.59	U
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
118-74-1	Hexachlorobenzene	ND	2.0	0.58	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
91-58-7	2-Chloronaphthalene	ND	2.0	0.64	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
206-44-0	Fluoranthene	ND	2.0	0.57	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
87-68-3	Hexachlorobutadiene	ND	2.0	0.66	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U <i>UJ</i>
67-72-1	Hexachloroethane	ND	2.0	0.68	U
78-59-1	Isophorone	ND	5.0	0.60	U
91-20-3	Naphthalene	ND	2.0	0.68	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U

JP
2/8/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1600381-05	Date Collected : 01/06/16 12:50
Client ID : FIELD BLANK-1	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/18/16 14:22
Sample Matrix : WATER	Date Extracted : 01/08/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 00381-05	Analyst : JB
Sample Amount : 1000 ml	Instrument ID : SV103.I
Extraction Method : EPA 3510C	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
56-55-3	Benzo(a)anthracene	ND	2.0	0.61	U
50-32-8	Benzo(a)pyrene	ND	2.0	0.54	U
205-99-2	Benzo(b)fluoranthene	ND	2.0	0.64	U
207-08-9	Benzo(k)fluoranthene	ND	2.0	0.60	U
218-01-9	Chrysene	ND	2.0	0.54	U
208-96-8	Acenaphthylene	ND	2.0	0.66	U
120-12-7	Anthracene	ND	2.0	0.64	U
191-24-2	Benzo(ghi)perylene	ND	2.0	0.61	U
86-73-7	Fluorene	ND	2.0	0.62	U
85-01-8	Phenanthrene	ND	2.0	0.61	U
53-70-3	Dibenzo(a,h)anthracene	ND	2.0	0.55	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	2.0	0.71	U
129-00-0	Pyrene	ND	2.0	0.57	U
92-52-4	Biphenyl	ND	2.0	0.76	U
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1600381-05
 Client ID : FIELD BLANK-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D
 Lab File ID : 00381-05
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1600381
 Project Number: 12292
 Date Collected : 01/06/16 12:50
 Date Received : 01/06/16
 Date Analyzed : 01/18/16 14:22
 Date Extracted : 01/08/16
 Dilution Factor : 1
 Analyst : JB
 Instrument ID : SV103.1
 GC Column : RTX-5
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
132-64-9	Dibenzofuran	ND	2.0	0.66	U
91-57-6	2-Methylnaphthalene	ND	2.0	0.72	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U WJ
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U WJ
87-86-5	Pentachlorophenol	ND	10	3.4	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U

JBM
 2/16/16



PART 4
PESTICIDES/PCBS (SDG L1600381)
Appendix C
Data Summary Form I's
With Qualifications

Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-13	Date Collected : 01/07/16 10:30
Client ID : SB-1 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 01:50
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-19	Analyst : EC
Sample Amount : 15.83 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	Results	ug/Kg		Qualifier
			RL	MDL	
319-86-8	Delta-BHC	ND	1.74	0.340	U
58-89-9	Lindane	ND	0.724	0.323	U
319-84-6	Alpha-BHC	ND	0.724	0.206	U
319-85-7	Beta-BHC	ND	1.74	0.658	U
76-44-8	Heptachlor	ND	0.868	0.389	U
309-00-2	Aldrin	ND	1.74	0.611	U
1024-57-3	Heptachlor epoxide	ND	3.26	0.977	U
72-20-8	Endrin	ND	0.724	0.297	U
53494-70-5	Endrin ketone	ND	1.74	0.447	U
60-57-1	Dieldrin	ND	1.08	0.543	U
72-55-9	4,4'-DDE	ND	1.74	0.402	U
72-54-8	4,4'-DDD	ND	1.74	0.619	U
50-29-3	4,4'-DDT	ND	3.26	1.40	U
959-98-8	Endosulfan I	ND	1.74	0.410	U
33213-65-9	Endosulfan II	ND	1.74	0.580	U
1031-07-8	Endosulfan sulfate	ND	0.724	0.344	U
72-43-5	Methoxychlor	ND	3.26	1.01	U
8001-35-2	Toxaphene	ND	32.6	9.12	U
5103-71-9	cis-Chlordane	ND	2.17	0.605	U
5103-74-2	trans-Chlordane	ND	2.17	0.573	U
57-74-9	Chlordane	ND	14.1	5.75	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-18	Date Collected : 01/11/16 08:15
Client ID : SB-2 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 18:10
Sample Matrix : SOIL	Date Extracted : 01/14/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160114-09	Analyst : EC
Sample Amount : 15.34 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 93
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.69	0.331	U
58-89-9	Lindane	ND	0.704	0.315	U
319-84-6	Alpha-BHC	ND	0.704	0.200	U
319-85-7	Beta-BHC	ND	1.69	0.641	U
76-44-8	Heptachlor	ND	0.845	0.379	U
309-00-2	Aldrin	ND	1.69	0.595	U
1024-57-3	Heptachlor epoxide	ND	3.17	0.950	U
72-20-8	Endrin	ND	0.704	0.289	U
53494-70-5	Endrin ketone	ND	1.69	0.435	U
60-57-1	Dieldrin	ND	1.06	0.528	U
72-55-9	4,4'-DDE	ND	1.69	0.391	U
72-54-8	4,4'-DDD	ND	1.69	0.603	U
50-29-3	4,4'-DDT	ND	3.17	1.36	U
959-98-8	Endosulfan I	ND	1.69	0.399	U
33213-65-9	Endosulfan II	ND	1.69	0.564	U
1031-07-8	Endosulfan sulfate	ND	0.704	0.335	U
72-43-5	Methoxychlor	ND	3.17	0.986	U
8001-35-2	Toxaphene	ND	31.7	8.87	U
5103-71-9	cis-Chlordane	ND	2.11	0.588	U
5103-74-2	trans-Chlordane	ND	2.11	0.558	U
57-74-9	Chlordane	ND	13.7	5.60	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 00:05
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-11	Analyst : EC
Sample Amount : 15.85 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 95
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.60	0.313	U
58-89-9	Lindane	ND	0.666	0.297	U
319-84-6	Alpha-BHC	ND	0.666	0.189	U
319-85-7	Beta-BHC	ND	1.60	0.606	U
76-44-8	Heptachlor	ND	0.799	0.358	U
309-00-2	Aldrin	ND	1.60	0.562	U
1024-57-3	Heptachlor epoxide	ND	2.99	0.898	U
72-20-8	Endrin	ND	0.666	0.273	U
53494-70-5	Endrin ketone	ND	1.60	0.411	U
60-57-1	Dieldrin	ND	0.998	0.499	U
72-55-9	4,4'-DDE	ND	1.60	0.369	U
72-54-8	4,4'-DDD	ND	1.60	0.570	U
50-29-3	4,4'-DDT	2.93	2.99	1.28	J
959-98-8	Endosulfan I	ND	1.60	0.377	U
33213-65-9	Endosulfan II	ND	1.60	0.534	U
1031-07-8	Endosulfan sulfate	ND	0.666	0.317	U
72-43-5	Methoxychlor	ND	2.99	0.932	U
8001-35-2	Toxaphene	ND	29.9	8.38	U
5103-71-9	cis-Chlordane	ND	2.00	0.556	U
5103-74-2	trans-Chlordane	ND	2.00	0.527	U
57-74-9	Chlordane	ND	13.0	5.29	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2) <i>(DUP of SB-3 0-2)</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 00:18
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-12	Analyst : EC
Sample Amount : 15.76 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.86	0.364	U
58-89-9	Lindane	ND	0.774	0.346	U
319-84-6	Alpha-BHC	ND	0.774	0.220	U
319-85-7	Beta-BHC	ND	1.86	0.704	U
76-44-8	Heptachlor	ND	0.928	0.416	U
309-00-2	Aldrin	ND	1.86	0.654	U
1024-57-3	Heptachlor epoxide	ND	3.48	1.04	U
72-20-8	Endrin	ND	0.774	0.317	U
53494-70-5	Endrin ketone	ND	1.86	0.478	U
60-57-1	Dieldrin	ND	1.16	0.580	U
72-55-9	4,4'-DDE	ND	1.86	0.429	U
72-54-8	4,4'-DDD	ND	1.86	0.662	U
50-29-3	4,4'-DDT	4.86	3.48	1.49	<i>P J</i>
959-98-8	Endosulfan I	ND	1.86	0.439	U
33213-65-9	Endosulfan II	ND	1.86	0.620	U
1031-07-8	Endosulfan sulfate	ND	0.774	0.368	U
72-43-5	Methoxychlor	ND	3.48	1.08	U
8001-35-2	Toxaphene	ND	34.8	9.75	U
5103-71-9	cis-Chlordane	ND	2.32	0.647	U
5103-74-2	trans-Chlordane	ND	2.32	0.613	U
57-74-9	Chlordane	ND	15.1	6.15	U

for 2/17/16



Form 1

GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-15	Date Collected : 01/07/16 11:05
Client ID : SB-4 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 17:38
Sample Matrix : SOIL	Date Extracted : 01/14/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160114-07	Analyst : EC
Sample Amount : 15.4 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.79	0.350	U
58-89-9	Lindane	ND	0.745	0.333	U
319-84-6	Alpha-BHC	ND	0.745	0.211	U
319-85-7	Beta-BHC	ND	1.79	0.678	U
76-44-8	Heptachlor	ND	0.894	0.401	U
309-00-2	Aldrin	ND	1.79	0.629	U
1024-57-3	Heptachlor epoxide	ND	3.35	1.00	U
72-20-8	Endrin	ND	0.745	0.305	U
53494-70-5	Endrin ketone	ND	1.79	0.460	U
60-57-1	Dieldrin	ND	1.12	0.558	U
72-55-9	4,4'-DDE	ND	1.79	0.413	U
72-54-8	4,4'-DDD	ND	1.79	0.637	U
50-29-3	4,4'-DDT	ND	3.35	1.44	U
959-98-8	Endosulfan I	ND	1.79	0.422	U
33213-65-9	Endosulfan II	ND	1.79	0.597	U
1031-07-8	Endosulfan sulfate	ND	0.745	0.354	U
72-43-5	Methoxychlor	ND	3.35	1.04	U
8001-35-2	Toxaphene	ND	33.5	9.38	U
5103-71-9	cis-Chlordane	ND	2.23	0.622	U
5103-74-2	trans-Chlordane	ND	2.23	0.590	U
57-74-9	Chlordane	ND	14.5	5.92	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-16	Date Collected : 01/07/16 11:15
Client ID : SB-4 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 17:54
Sample Matrix : SOIL	Date Extracted : 01/14/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160114-08	Analyst : EC
Sample Amount : 15.55 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.57	0.307	U
58-89-9	Lindane	ND	0.654	0.292	U
319-84-6	Alpha-BHC	ND	0.654	0.186	U
319-85-7	Beta-BHC	ND	1.57	0.595	U
76-44-8	Heptachlor	ND	0.784	0.352	U
309-00-2	Aldrin	ND	1.57	0.552	U
1024-57-3	Heptachlor epoxide	ND	2.94	0.882	U
72-20-8	Endrin	ND	0.654	0.268	U
53494-70-5	Endrin ketone	ND	1.57	0.404	U
60-57-1	Dieldrin	ND	0.980	0.490	U
72-55-9	4,4'-DDE	ND	1.57	0.363	U
72-54-8	4,4'-DDD	ND	1.57	0.559	U
50-29-3	4,4'-DDT	ND	2.94	1.26	U
959-98-8	Endosulfan I	ND	1.57	0.370	U
33213-65-9	Endosulfan II	ND	1.57	0.524	U
1031-07-8	Endosulfan sulfate	ND	0.654	0.311	U
72-43-5	Methoxychlor	ND	2.94	0.915	U
8001-35-2	Toxaphene	ND	29.4	8.23	U
5103-71-9	cis-Chlordane	ND	1.96	0.546	U
5103-74-2	trans-Chlordane	ND	1.96	0.518	U
57-74-9	Chlordane	ND	12.7	5.20	U



Form 1

GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-08	Date Collected : 01/07/16 09:45
Client ID : SB-5 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 00:44
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-14	Analyst : EC
Sample Amount : 15.92 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.72	0.338	U
58-89-9	Lindane	ND	0.719	0.321	U
319-84-6	Alpha-BHC	ND	0.719	0.204	U
319-85-7	Beta-BHC	ND	1.72	0.654	U
76-44-8	Heptachlor	ND	0.862	0.387	U
309-00-2	Aldrin	ND	1.72	0.607	U
1024-57-3	Heptachlor epoxide	ND	3.23	0.970	U
72-20-8	Endrin	ND	0.719	0.295	U
53494-70-5	Endrin ketone	ND	1.72	0.444	U
60-57-1	Dieldrin	ND	1.08	0.539	U
72-55-9	4,4'-DDE	ND	1.72	0.399	U
72-54-8	4,4'-DDD	ND	1.72	0.615	U
50-29-3	4,4'-DDT	ND	3.23	1.39	U
959-98-8	Endosulfan I	ND	1.72	0.408	U
33213-65-9	Endosulfan II	ND	1.72	0.576	U
1031-07-8	Endosulfan sulfate	ND	0.719	0.342	U
72-43-5	Methoxychlor	ND	3.23	1.01	U
8001-35-2	Toxaphene	ND	32.3	9.06	U
5103-71-9	cis-Chlordane	ND	2.16	0.601	U
5103-74-2	trans-Chlordane	ND	2.16	0.569	U
57-74-9	Chlordane	ND	14.0	5.71	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 00:58
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-15	Analyst : EC
Sample Amount : 15.3 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.60	0.314	U
58-89-9	Lindane	ND	0.668	0.299	U
319-84-6	Alpha-BHC	ND	0.668	0.190	U
319-85-7	Beta-BHC	ND	1.60	0.608	U
76-44-8	Heptachlor	ND	0.802	0.360	U
309-00-2	Aldrin	ND	1.60	0.565	U
1024-57-3	Heptachlor epoxide	ND	3.01	0.902	U
72-20-8	Endrin	ND	0.668	0.274	U
53494-70-5	Endrin ketone	ND	1.60	0.413	U
60-57-1	Dieldrin	ND	1.00	0.501	U
72-55-9	4,4'-DDE	ND	1.60	0.371	U
72-54-8	4,4'-DDD	ND	1.60	0.572	U
50-29-3	4,4'-DDT	ND	3.01	1.29	U
959-98-8	Endosulfan I	ND	1.60	0.379	U
33213-65-9	Endosulfan II	ND	1.60	0.536	U
1031-07-8	Endosulfan sulfate	ND	0.668	0.318	U
72-43-5	Methoxychlor	ND	3.01	0.936	U
8001-35-2	Toxaphene	ND	30.1	8.42	U
5103-71-9	cis-Chlordane	ND	2.00	0.559	U
5103-74-2	trans-Chlordane	ND	2.00	0.529	U
57-74-9	Chlordane	ND	13.0	5.31	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 23:39
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-09	Analyst : EC
Sample Amount : 15.22 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.88	0.368	U
58-89-9	Lindane	ND	0.782	0.350	U
319-84-6	Alpha-BHC	ND	0.782	0.222	U
319-85-7	Beta-BHC	ND	1.88	0.712	U
76-44-8	Heptachlor	ND	0.939	0.421	U
309-00-2	Aldrin	ND	1.88	0.661	U
1024-57-3	Heptachlor epoxide	ND	3.52	1.06	U
72-20-8	Endrin	ND	0.782	0.321	U
53494-70-5	Endrin ketone	ND	1.88	0.483	U
60-57-1	Dieldrin	ND	1.17	0.587	U
72-55-9	4,4'-DDE	ND	1.88	0.434	U
72-54-8	4,4'-DDD	ND	1.88	0.670	U
50-29-3	4,4'-DDT	ND	3.52	1.51	U
959-98-8	Endosulfan I	ND	1.88	0.443	U
33213-65-9	Endosulfan II	ND	1.88	0.627	U
1031-07-8	Endosulfan sulfate	ND	0.782	0.372	U
72-43-5	Methoxychlor	ND	3.52	1.10	U
8001-35-2	Toxaphene	ND	35.2	9.86	U
5103-71-9	cis-Chlordane	ND	2.35	0.654	U
5103-74-2	trans-Chlordane	ND	2.35	0.619	U
57-74-9	Chlordane	ND	15.2	6.22	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-02	Date Collected : 01/06/16 10:10
Client ID : SB-6 (12-14)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 23:52
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-10	Analyst : EC
Sample Amount : 15.71 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 97
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.58	0.309	U
58-89-9	Lindane	ND	0.657	0.294	U
319-84-6	Alpha-BHC	ND	0.657	0.186	U
319-85-7	Beta-BHC	ND	1.58	0.598	U
76-44-8	Heptachlor	ND	0.788	0.353	U
309-00-2	Aldrin	ND	1.58	0.555	U
1024-57-3	Heptachlor epoxide	ND	2.96	0.887	U
72-20-8	Endrin	ND	0.657	0.269	U
53494-70-5	Endrin ketone	ND	1.58	0.406	U
60-57-1	Dieldrin	ND	0.985	0.493	U
72-55-9	4,4'-DDE	ND	1.58	0.364	U
72-54-8	4,4'-DDD	ND	1.58	0.562	U
50-29-3	4,4'-DDT	ND	2.96	1.27	U
959-98-8	Endosulfan I	ND	1.58	0.372	U
33213-65-9	Endosulfan II	ND	1.58	0.527	U
1031-07-8	Endosulfan sulfate	ND	0.657	0.313	U
72-43-5	Methoxychlor	ND	2.96	0.920	U
8001-35-2	Toxaphene	ND	29.6	8.28	U
5103-71-9	cis-Chlordane	ND	1.97	0.549	U
5103-74-2	trans-Chlordane	ND	1.97	0.520	U
57-74-9	Chlordane	ND	12.8	5.22	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 01:11
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-16	Analyst : EC
Sample Amount : 15.6 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 86
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.79	0.350	U
58-89-9	Lindane	ND	0.745	0.333	U
319-84-6	Alpha-BHC	ND	0.745	0.212	U
319-85-7	Beta-BHC	ND	1.79	0.678	U
76-44-8	Heptachlor	ND	0.894	0.401	U
309-00-2	Aldrin	ND	1.79	0.630	U
1024-57-3	Heptachlor epoxide	ND	3.35	1.01	U
72-20-8	Endrin	ND	0.745	0.306	U
53494-70-5	Endrin ketone	ND	1.79	0.461	U
60-57-1	Dieldrin	ND	1.12	0.559	U
72-55-9	4,4'-DDE	ND	1.79	0.414	U
72-54-8	4,4'-DDD	ND	1.79	0.638	U
50-29-3	4,4'-DDT	ND	3.35	1.44	U
959-98-8	Endosulfan I	ND	1.79	0.423	U
33213-65-9	Endosulfan II	ND	1.79	0.598	U
1031-07-8	Endosulfan sulfate	ND	0.745	0.355	U
72-43-5	Methoxychlor	ND	3.35	1.04	U
8001-35-2	Toxaphene	ND	33.5	9.39	U
5103-71-9	cis-Chlordane	ND	2.24	0.623	U
5103-74-2	trans-Chlordane	ND	2.24	0.590	U
57-74-9	Chlordane	ND	14.5	5.92	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 01:37
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-18	Analyst : EC
Sample Amount : 15.66 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.56	0.306	U
58-89-9	Lindane	ND	0.651	0.291	U
319-84-6	Alpha-BHC	ND	0.651	0.185	U
319-85-7	Beta-BHC	ND	1.56	0.592	U
76-44-8	Heptachlor	ND	0.781	0.350	U
309-00-2	Aldrin	ND	1.56	0.550	U
1024-57-3	Heptachlor epoxide	ND	2.93	0.879	U
72-20-8	Endrin	ND	0.651	0.267	U
53494-70-5	Endrin ketone	ND	1.56	0.402	U
60-57-1	Dieldrin	ND	0.976	0.488	U
72-55-9	4,4'-DDE	ND	1.56	0.361	U
72-54-8	4,4'-DDD	ND	1.56	0.557	U
50-29-3	4,4'-DDT	ND	2.93	1.26	U
959-98-8	Endosulfan I	ND	1.56	0.369	U
33213-65-9	Endosulfan II	ND	1.56	0.522	U
1031-07-8	Endosulfan sulfate	ND	0.651	0.310	U
72-43-5	Methoxychlor	ND	2.93	0.911	U
8001-35-2	Toxaphene	ND	29.3	8.20	U
5103-71-9	cis-Chlordane	ND	1.95	0.544	U
5103-74-2	trans-Chlordane	ND	1.95	0.516	U
57-74-9	Chlordane	ND	12.7	5.17	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-14	Date Collected : 01/07/16 10:45
Client ID : SB-9 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 02:03
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-20	Analyst : EC
Sample Amount : 15.22 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.74	0.340	U
58-89-9	Lindane	ND	0.724	0.323	U
319-84-6	Alpha-BHC	ND	0.724	0.206	U
319-85-7	Beta-BHC	ND	1.74	0.658	U
76-44-8	Heptachlor	ND	0.868	0.389	U
309-00-2	Aldrin	ND	1.74	0.611	U
1024-57-3	Heptachlor epoxide	ND	3.26	0.977	U
72-20-8	Endrin	ND	0.724	0.297	U
53494-70-5	Endrin ketone	ND	1.74	0.447	U
60-57-1	Dieldrin	ND	1.08	0.543	U
72-55-9	4,4'-DDE	ND	1.74	0.402	U
72-54-8	4,4'-DDD	ND	1.74	0.619	U
50-29-3	4,4'-DDT	ND	3.26	1.40	U
959-98-8	Endosulfan I	ND	1.74	0.410	U
33213-65-9	Endosulfan II	ND	1.74	0.580	U
1031-07-8	Endosulfan sulfate	ND	0.724	0.344	U
72-43-5	Methoxychlor	ND	3.26	1.01	U
8001-35-2	Toxaphene	ND	32.6	9.12	U
5103-71-9	cis-Chlordane	ND	2.17	0.605	U
5103-74-2	trans-Chlordane	ND	2.17	0.573	U
57-74-9	Chlordane	ND	14.1	5.75	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 18:26
Sample Matrix : SOIL	Date Extracted : 01/14/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160114-10	Analyst : EC
Sample Amount : 15.57 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.69	0.330	U
58-89-9	Lindane	ND	0.703	0.314	U
319-84-6	Alpha-BHC	ND	0.703	0.200	U
319-85-7	Beta-BHC	ND	1.69	0.639	U
76-44-8	Heptachlor	ND	0.843	0.378	U
309-00-2	Aldrin	ND	1.69	0.594	U
1024-57-3	Heptachlor epoxide	ND	3.16	0.949	U
72-20-8	Endrin	ND	0.703	0.288	U
53494-70-5	Endrin ketone	ND	1.69	0.434	U
60-57-1	Dieldrin	ND	1.05	0.527	U
72-55-9	4,4'-DDE	ND	1.69	0.390	U
72-54-8	4,4'-DDD	ND	1.69	0.602	U
959-98-8	Endosulfan I	ND	1.69	0.398	U
33213-65-9	Endosulfan II	ND	1.69	0.564	U
1031-07-8	Endosulfan sulfate	ND	0.703	0.334	U
72-43-5	Methoxychlor	ND	3.16	0.984	U
8001-35-2	Toxaphene	ND	31.6	8.85	U
5103-71-9	cis-Chlordane	ND	2.11	0.587	U
5103-74-2	trans-Chlordane	ND	2.11	0.556	U
57-74-9	Chlordane	ND	13.7	5.59	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 18:26
Sample Matrix : SOIL	Date Extracted : 01/14/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160114-10	Analyst : EC
Sample Amount : 15.57 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticidesII
Extract Volume : 10000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
50-29-3	4,4'-DDT	ND	3.16	1.36	UPI



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-20	Date Collected : 01/11/16 09:10
Client ID : SB-10 (12-14)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 18:42
Sample Matrix : SOIL	Date Extracted : 01/14/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160114-11	Analyst : EC
Sample Amount : 15.28 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 96
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.63	0.320	U
58-89-9	Lindane	ND	0.681	0.304	U
319-84-6	Alpha-BHC	ND	0.681	0.193	U
319-85-7	Beta-BHC	ND	1.63	0.620	U
76-44-8	Heptachlor	ND	0.817	0.366	U
309-00-2	Aldrin	ND	1.63	0.575	U
1024-57-3	Heptachlor epoxide	ND	3.06	0.919	U
72-20-8	Endrin	ND	0.681	0.279	U
53494-70-5	Endrin ketone	ND	1.63	0.421	U
60-57-1	Dieldrin	ND	1.02	0.511	U
72-55-9	4,4'-DDE	ND	1.63	0.378	U
72-54-8	4,4'-DDD	ND	1.63	0.583	U
50-29-3	4,4'-DDT	ND	3.06	1.31	U
959-98-8	Endosulfan I	ND	1.63	0.386	U
33213-65-9	Endosulfan II	ND	1.63	0.546	U
1031-07-8	Endosulfan sulfate	ND	0.681	0.324	U
72-43-5	Methoxychlor	ND	3.06	0.953	U
8001-35-2	Toxaphene	ND	30.6	8.58	U
5103-71-9	cis-Chlordane	ND	2.04	0.569	U
5103-74-2	trans-Chlordane	ND	2.04	0.539	U
57-74-9	Chlordane	ND	13.3	5.41	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 00:31
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-13	Analyst : EC
Sample Amount : 15.3 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 81
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.94	0.381	U
58-89-9	Lindane	ND	0.810	0.362	U
319-84-6	Alpha-BHC	ND	0.810	0.230	U
319-85-7	Beta-BHC	ND	1.94	0.737	U
76-44-8	Heptachlor	ND	0.972	0.436	U
309-00-2	Aldrin	ND	1.94	0.684	U
1024-57-3	Heptachlor epoxide	ND	3.64	1.09	U
72-20-8	Endrin	ND	0.810	0.332	U
53494-70-5	Endrin ketone	ND	1.94	0.500	U
60-57-1	Dieldrin	ND	1.21	0.607	U
72-55-9	4,4'-DDE	ND	1.94	0.449	U
72-54-8	4,4'-DDD	ND	1.94	0.693	U
50-29-3	4,4'-DDT	ND	3.64	1.56	U
959-98-8	Endosulfan I	ND	1.94	0.459	U
33213-65-9	Endosulfan II	ND	1.94	0.650	U
1031-07-8	Endosulfan sulfate	ND	0.810	0.386	U
72-43-5	Methoxychlor	ND	3.64	1.13	U
8001-35-2	Toxaphene	ND	36.4	10.2	U
5103-71-9	cis-Chlordane	ND	2.43	0.677	U
5103-74-2	trans-Chlordane	ND	2.43	0.641	U
57-74-9	Chlordane	ND	15.8	6.44	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-21	Date Collected : 01/11/16 09:30
Client ID : SB-12 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 15:04
Sample Matrix : SOIL	Date Extracted : 01/15/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160115-25	Analyst : AM
Sample Amount : 15.65 g	Instrument ID : PEST11
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.69	0.332	U
58-89-9	Lindane	ND	0.706	0.316	U
319-84-6	Alpha-BHC	ND	0.706	0.200	U
319-85-7	Beta-BHC	ND	1.69	0.642	U
76-44-8	Heptachlor	ND	0.847	0.380	U
309-00-2	Aldrin	ND	1.69	0.597	U
1024-57-3	Heptachlor epoxide	ND	3.18	0.953	U
72-20-8	Endrin	ND	0.706	0.289	U
53494-70-5	Endrin ketone	ND	1.69	0.436	U
60-57-1	Dieldrin	ND	1.06	0.530	U
72-55-9	4,4'-DDE	ND	1.69	0.392	U
72-54-8	4,4'-DDD	ND	1.69	0.604	U
50-29-3	4,4'-DDT	ND	3.18	1.36	U
959-98-8	Endosulfan I	ND	1.69	0.400	U
33213-65-9	Endosulfan II	ND	1.69	0.566	U
1031-07-8	Endosulfan sulfate	ND	0.706	0.336	U
72-43-5	Methoxychlor	ND	3.18	0.988	U
8001-35-2	Toxaphene	ND	31.8	8.90	U
5103-71-9	cis-Chlordane	ND	2.12	0.590	U
5103-74-2	trans-Chlordane	ND	2.12	0.559	U
57-74-9	Chlordane	ND	13.8	5.61	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-11	Date Collected : 01/07/16 10:10
Client ID : SB-13 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 01:24
Sample Matrix : SOIL	Date Extracted : 01/10/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 15160111-17	Analyst : EC
Sample Amount : 15.61 g	Instrument ID : PEST15
Extraction Method : EPA 3546	GC Column : CLPPesticides
Extract Volume : 10000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	1.76	0.344	U
58-89-9	Lindane	ND	0.733	0.328	U
319-84-6	Alpha-BHC	ND	0.733	0.208	U
319-85-7	Beta-BHC	ND	1.76	0.667	U
76-44-8	Heptachlor	ND	0.880	0.394	U
309-00-2	Aldrin	ND	1.76	0.619	U
1024-57-3	Heptachlor epoxide	ND	3.30	0.990	U
72-20-8	Endrin	ND	0.733	0.300	U
53494-70-5	Endrin ketone	ND	1.76	0.453	U
60-57-1	Dieldrin	ND	1.10	0.550	U
72-55-9	4,4'-DDE	ND	1.76	0.407	U
72-54-8	4,4'-DDD	ND	1.76	0.627	U
50-29-3	4,4'-DDT	ND	3.30	1.41	U
959-98-8	Endosulfan I	ND	1.76	0.416	U
33213-65-9	Endosulfan II	ND	1.76	0.588	U
1031-07-8	Endosulfan sulfate	ND	0.733	0.349	U
72-43-5	Methoxychlor	ND	3.30	1.03	U
8001-35-2	Toxaphene	ND	33.0	9.24	U
5103-71-9	cis-Chlordane	ND	2.20	0.613	U
5103-74-2	trans-Chlordane	ND	2.20	0.580	U
57-74-9	Chlordane	ND	14.3	5.83	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-05	Date Collected : 01/06/16 12:50
Client ID : FIELD BLANK-1	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/09/16 16:07
Sample Matrix : WATER	Date Extracted : 01/08/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160109-22	Analyst : KE
Sample Amount : 500 ml	Instrument ID : PEST11
Extraction Method : EPA 3510C	GC Column : CLPPesticides
Extract Volume : 5000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-13	Date Collected : 01/07/16 10:30
Client ID : SB-1 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 20:03
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-29	Analyst : KB
Sample Amount : 15.56 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	36.8	2.91	U
11104-28-2	Aroclor 1221	ND	36.8	3.39	U
11141-16-5	Aroclor 1232	ND	36.8	4.31	U
53469-21-9	Aroclor 1242	ND	36.8	4.50	U
12672-29-6	Aroclor 1248	ND	36.8	3.11	U
11097-69-1	Aroclor 1254	ND	36.8	3.02	U
11096-82-5	Aroclor 1260	ND	36.8	2.80	U
37324-23-5	Aroclor 1262	ND	36.8	1.82	U
11100-14-4	Aroclor 1268	ND	36.8	5.34	U
1336-36-3	PCBs, Total	ND	36.8	1.82	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-18	Date Collected : 01/11/16 08:15
Client ID : SB-2 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 11:02
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : p7160114-11	Analyst : JT
Sample Amount : 15.69 g	Instrument ID : PEST7
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 93
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	34.4	2.72	U
11104-28-2	Aroclor 1221	ND	34.4	3.17	U
11141-16-5	Aroclor 1232	ND	34.4	4.03	U
53469-21-9	Aroclor 1242	ND	34.4	4.21	U
12672-29-6	Aroclor 1248	ND	34.4	2.90	U
11097-69-1	Aroclor 1254	ND	34.4	2.83	U
11096-82-5	Aroclor 1260	ND	34.4	2.62	U
37324-23-5	Aroclor 1262	ND	34.4	1.71	U
11100-14-4	Aroclor 1268	ND	34.4	4.99	U
1336-36-3	PCBs, Total	ND	34.4	1.71	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 18:14
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-21	Analyst : KB
Sample Amount : 15.75 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 95
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	33.5	2.64	U
11104-28-2	Aroclor 1221	ND	33.5	3.09	U
11141-16-5	Aroclor 1232	ND	33.5	3.92	U
53469-21-9	Aroclor 1242	ND	33.5	4.10	U
12672-29-6	Aroclor 1248	ND	33.5	2.83	U
11097-69-1	Aroclor 1254	ND	33.5	2.75	U
11096-82-5	Aroclor 1260	ND	33.5	2.55	U
37324-23-5	Aroclor 1262	ND	33.5	1.66	U
11100-14-4	Aroclor 1268	ND	33.5	4.86	U
1336-36-3	PCBs, Total	ND	33.5	1.66	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2) <i>DUP 86 (SB-3 0-2)</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 18:28
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-22	Analyst : KB
Sample Amount : 15.31 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 82
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	39.8	3.15	U
11104-28-2	Aroclor 1221	ND	39.8	3.67	U
11141-16-5	Aroclor 1232	ND	39.8	4.67	U
53469-21-9	Aroclor 1242	ND	39.8	4.87	U
12672-29-6	Aroclor 1248	ND	39.8	3.36	U
11097-69-1	Aroclor 1254	ND	39.8	3.27	U
11096-82-5	Aroclor 1260	ND	39.8	3.03	U
37324-23-5	Aroclor 1262	ND	39.8	1.98	U
11100-14-4	Aroclor 1268	ND	39.8	5.77	U
1336-36-3	PCBs, Total	ND	39.8	1.98	U

OK
2/5/16



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-15	Date Collected : 01/07/16 11:05
Client ID : SB-4 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 20:31
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-31	Analyst : KB
Sample Amount : 15.59 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	36.8	2.90	U
11104-28-2	Aroclor 1221	ND	36.8	3.39	U
11141-16-5	Aroclor 1232	ND	36.8	4.31	U
53469-21-9	Aroclor 1242	ND	36.8	4.50	U
12672-29-6	Aroclor 1248	ND	36.8	3.10	U
11097-69-1	Aroclor 1254	ND	36.8	3.02	U
11096-82-5	Aroclor 1260	ND	36.8	2.80	U
37324-23-5	Aroclor 1262	ND	36.8	1.82	U
11100-14-4	Aroclor 1268	ND	36.8	5.33	U
1336-36-3	PCBs, Total	ND	36.8	1.82	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-16	Date Collected : 01/07/16 11:15
Client ID : SB-4 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 20:44
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-32	Analyst : KB
Sample Amount : 15.61 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	32.6	2.57	U
11104-28-2	Aroclor 1221	ND	32.6	3.00	U
11141-16-5	Aroclor 1232	ND	32.6	3.82	U
53469-21-9	Aroclor 1242	ND	32.6	3.98	U
12672-29-6	Aroclor 1248	ND	32.6	2.75	U
11097-69-1	Aroclor 1254	ND	32.6	2.68	U
11096-82-5	Aroclor 1260	ND	32.6	2.48	U
37324-23-5	Aroclor 1262	ND	32.6	1.61	U
11100-14-4	Aroclor 1268	ND	32.6	4.72	U
1336-36-3	PCBs, Total	ND	32.6	1.61	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-08	Date Collected : 01/07/16 09:45
Client ID : SB-5 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 18:55
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-24	Analyst : KB
Sample Amount : 15.99 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	35.8	2.83	U
11104-28-2	Aroclor 1221	ND	35.8	3.30	U
11141-16-5	Aroclor 1232	ND	35.8	4.19	U
53469-21-9	Aroclor 1242	ND	35.8	4.38	U
12672-29-6	Aroclor 1248	ND	35.8	3.02	U
11097-69-1	Aroclor 1254	ND	35.8	2.94	U
11096-82-5	Aroclor 1260	ND	35.8	2.73	U
37324-23-5	Aroclor 1262	ND	35.8	1.77	U
11100-14-4	Aroclor 1268	ND	35.8	5.19	U
1336-36-3	PCBs, Total	ND	35.8	1.77	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 19:09
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-25	Analyst : KB
Sample Amount : 15.45 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	33.1	2.61	U
11104-28-2	Aroclor 1221	ND	33.1	3.05	U
11141-16-5	Aroclor 1232	ND	33.1	3.88	U
53469-21-9	Aroclor 1242	ND	33.1	4.05	U
12672-29-6	Aroclor 1248	ND	33.1	2.79	U
11097-69-1	Aroclor 1254	ND	33.1	2.72	U
11096-82-5	Aroclor 1260	ND	33.1	2.52	U
37324-23-5	Aroclor 1262	ND	33.1	1.64	U
1336-36-3	PCBs, Total	8.05	33.1	1.64	J



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 19:09
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-25	Analyst : KB
Sample Amount : 15.45 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticidell
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
11100-14-4	Aroclor 1268	8.05	33.1	4.80	J



Form 1

GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 17:46
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-19	Analyst : KB
Sample Amount : 15.72 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 84
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	37.9	2.99	U
11104-28-2	Aroclor 1221	ND	37.9	3.49	U
11141-16-5	Aroclor 1232	ND	37.9	4.44	U
53469-21-9	Aroclor 1242	ND	37.9	4.63	U
12672-29-6	Aroclor 1248	ND	37.9	3.20	U
11097-69-1	Aroclor 1254	ND	37.9	3.11	U
11096-82-5	Aroclor 1260	ND	37.9	2.88	U
37324-23-5	Aroclor 1262	ND	37.9	1.88	U
11100-14-4	Aroclor 1268	ND	37.9	5.49	U
1336-36-3	PCBs, Total	ND	37.9	1.88	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-02	Date Collected : 01/06/16 10:10
Client ID : SB-6 (12-14)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 18:00
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-20	Analyst : KB
Sample Amount : 15.48 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 97
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	33.3	2.63	U
11104-28-2	Aroclor 1221	ND	33.3	3.07	U
11141-16-5	Aroclor 1232	ND	33.3	3.91	U
53469-21-9	Aroclor 1242	ND	33.3	4.08	U
12672-29-6	Aroclor 1248	ND	33.3	2.81	U
11097-69-1	Aroclor 1254	ND	33.3	2.74	U
11096-82-5	Aroclor 1260	ND	33.3	2.54	U
37324-23-5	Aroclor 1262	ND	33.3	1.65	U
11100-14-4	Aroclor 1268	ND	33.3	4.83	U
1336-36-3	PCBs, Total	ND	33.3	1.65	U



Form 1

GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 19:22
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-26	Analyst : KB
Sample Amount : 15.87 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 86
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	36.6	2.89	U
11104-28-2	Aroclor 1221	ND	36.6	3.38	U
11141-16-5	Aroclor 1232	ND	36.6	4.29	U
53469-21-9	Aroclor 1242	ND	36.6	4.48	U
12672-29-6	Aroclor 1248	ND	36.6	3.09	U
11097-69-1	Aroclor 1254	ND	36.6	3.01	U
11096-82-5	Aroclor 1260	ND	36.6	2.79	U
37324-23-5	Aroclor 1262	ND	36.6	1.82	U
11100-14-4	Aroclor 1268	ND	36.6	5.31	U
1336-36-3	PCBs, Total	ND	36.6	1.82	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 19:50
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-28	Analyst : KB
Sample Amount : 15.26 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 98
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	33.4	2.64	U
11104-28-2	Aroclor 1221	ND	33.4	3.08	U
11141-16-5	Aroclor 1232	ND	33.4	3.91	U
53469-21-9	Aroclor 1242	ND	33.4	4.09	U
12672-29-6	Aroclor 1248	ND	33.4	2.82	U
11097-69-1	Aroclor 1254	ND	33.4	2.74	U
11096-82-5	Aroclor 1260	ND	33.4	2.54	U
37324-23-5	Aroclor 1262	ND	33.4	1.66	U
11100-14-4	Aroclor 1268	ND	33.4	4.84	U
1336-36-3	PCBs, Total	ND	33.4	1.66	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-14	Date Collected : 01/07/16 10:45
Client ID : SB-9 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 20:17
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-30	Analyst : KB
Sample Amount : 15.14 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	36.4	2.87	U
11104-28-2	Aroclor 1221	ND	36.4	3.35	U
11141-16-5	Aroclor 1232	ND	36.4	4.26	U
53469-21-9	Aroclor 1242	ND	36.4	4.45	U
12672-29-6	Aroclor 1248	ND	36.4	3.07	U
11097-69-1	Aroclor 1254	ND	36.4	2.99	U
11096-82-5	Aroclor 1260	ND	36.4	2.77	U
37324-23-5	Aroclor 1262	ND	36.4	1.80	U
11100-14-4	Aroclor 1268	ND	36.4	5.27	U
1336-36-3	PCBs, Total	ND	36.4	1.80	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 11:18
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : p7160114-12	Analyst : JT
Sample Amount : 15.84 g	Instrument ID : PEST7
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	34.5	2.73	U
11104-28-2	Aroclor 1221	ND	34.5	3.18	U
11141-16-5	Aroclor 1232	ND	34.5	4.05	U
53469-21-9	Aroclor 1242	ND	34.5	4.23	U
12672-29-6	Aroclor 1248	ND	34.5	2.91	U
11097-69-1	Aroclor 1254	ND	34.5	2.84	U
11096-82-5	Aroclor 1260	ND	34.5	2.63	U
37324-23-5	Aroclor 1262	ND	34.5	1.71	U
11100-14-4	Aroclor 1268	ND	34.5	5.01	U
1336-36-3	PCBs, Total	ND	34.5	1.71	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-20	Date Collected : 01/11/16 09:10
Client ID : SB-10 (12-14)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 11:34
Sample Matrix : SOIL	Date Extracted : 01/13/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : p7160114-13	Analyst : JT
Sample Amount : 15.52 g	Instrument ID : PEST7
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 96
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	33.5	2.65	U
11104-28-2	Aroclor 1221	ND	33.5	3.09	U
11141-16-5	Aroclor 1232	ND	33.5	3.93	U
53469-21-9	Aroclor 1242	ND	33.5	4.10	U
12672-29-6	Aroclor 1248	ND	33.5	2.83	U
11097-69-1	Aroclor 1254	ND	33.5	2.76	U
11096-82-5	Aroclor 1260	ND	33.5	2.55	U
37324-23-5	Aroclor 1262	ND	33.5	1.66	U
11100-14-4	Aroclor 1268	ND	33.5	4.86	U
1336-36-3	PCBs, Total	ND	33.5	1.66	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 18:41
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-23	Analyst : KB
Sample Amount : 15.64 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 81
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	39.6	3.13	U
11104-28-2	Aroclor 1221	ND	39.6	3.65	U
11141-16-5	Aroclor 1232	ND	39.6	4.64	U
53469-21-9	Aroclor 1242	ND	39.6	4.85	U
12672-29-6	Aroclor 1248	ND	39.6	3.34	U
11097-69-1	Aroclor 1254	ND	39.6	3.26	U
11096-82-5	Aroclor 1260	ND	39.6	3.02	U
37324-23-5	Aroclor 1262	ND	39.6	1.96	U
11100-14-4	Aroclor 1268	ND	39.6	5.74	U
1336-36-3	PCBs, Total	ND	39.6	1.96	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-21	Date Collected : 01/11/16 09:30
Client ID : SB-12 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/16/16 19:14
Sample Matrix : SOIL	Date Extracted : 01/15/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160116-08	Analyst : TQ
Sample Amount : 15.8 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 91
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	35.0	2.76	U
11104-28-2	Aroclor 1221	ND	35.0	3.22	U
11141-16-5	Aroclor 1232	ND	35.0	4.10	U
53469-21-9	Aroclor 1242	ND	35.0	4.28	U
12672-29-6	Aroclor 1248	ND	35.0	2.95	U
11097-69-1	Aroclor 1254	ND	35.0	2.87	U
11096-82-5	Aroclor 1260	ND	35.0	2.66	U
37324-23-5	Aroclor 1262	ND	35.0	1.73	U
11100-14-4	Aroclor 1268	ND	35.0	5.07	U
1336-36-3	PCBs, Total	ND	35.0	1.73	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-11	Date Collected : 01/07/16 10:10
Client ID : SB-13 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 19:36
Sample Matrix : SOIL	Date Extracted : 01/09/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160111a-27	Analyst : KB
Sample Amount : 15.31 g	Instrument ID : PEST2
Extraction Method : EPA 3546	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : 87
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/Kg			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	37.4	2.95	U
11104-28-2	Aroclor 1221	ND	37.4	3.44	U
11141-16-5	Aroclor 1232	ND	37.4	4.38	U
53469-21-9	Aroclor 1242	ND	37.4	4.57	U
12672-29-6	Aroclor 1248	ND	37.4	3.15	U
11097-69-1	Aroclor 1254	ND	37.4	3.07	U
11096-82-5	Aroclor 1260	ND	37.4	2.85	U
37324-23-5	Aroclor 1262	ND	37.4	1.85	U
11100-14-4	Aroclor 1268	ND	37.4	5.42	U
1336-36-3	PCBs, Total	ND	37.4	1.85	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-05	Date Collected : 01/06/16 12:50
Client ID : FIELD BLANK-1	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 19:18
Sample Matrix : WATER	Date Extracted : 01/08/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : P2160108n-05	Analyst : JW
Sample Amount : 1200 ml	Instrument ID : PEST2
Extraction Method : EPA 3510C	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U



PART 5
METALS (SDG L1600381)
Appendix C
Data Summary Form I's
With Qualifications

Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-13	Date Collected : 01/07/16 10:30
Client ID : SB-1 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:47
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.286g	%Solids : 87
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	9800	8.9	1.8	
7440-36-0	Antimony, Total	1.4	4.4	0.71	J
7440-38-2	Arsenic, Total	6.4	0.89	0.18	
7440-39-3	Barium, Total	72	0.89	0.27	
7440-41-7	Beryllium, Total	0.44	0.44	0.09	
7440-43-9	Cadmium, Total	ND	0.89	0.06	U
7440-70-2	Calcium, Total	2300	8.9	2.7	
7440-47-3	Chromium, Total	14	0.89	0.18	
7440-48-4	Cobalt, Total	4.3	1.8	0.44	
7440-50-8	Copper, Total	17	0.89	0.18	
7439-89-6	Iron, Total	16000	4.4	1.8	
7439-92-1	Lead, Total	3700	4.4	0.18	
7439-95-4	Magnesium, Total	1700	8.9	0.89	
7439-96-5	Manganese, Total	330	0.89	0.18	
7440-02-0	Nickel, Total	8.6	2.2	0.36	
7440-09-7	Potassium, Total	390	220	36.	
7782-49-2	Selenium, Total	ND	1.8	0.27	U
7440-22-4	Silver, Total	ND	0.89	0.18	U
7440-23-5	Sodium, Total	91	180	27.	J
7440-28-0	Thallium, Total	ND	1.8	0.36	U
7440-62-2	Vanadium, Total	21	0.89	0.09	
7440-66-6	Zinc, Total	40	4.4	0.62	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-13 Client ID : SB-1 (0-2) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4010816A.pcl Sample Amount : 0.395g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/07/16 10:30 Date Received : 01/07/16 Date Analyzed : 01/08/16 12:56 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 87 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.16	0.07	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-18	Date Collected : 01/11/16 08:15
Client ID : SB-2 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:14
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.27g	%Solids : 93
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	7700	8.5	1.7	
7440-36-0	Antimony, Total	ND	4.2	0.68	U
7440-38-2	Arsenic, Total	3.0	0.85	0.17	
7440-39-3	Barium, Total	58	0.85	0.26	
7440-41-7	Beryllium, Total	0.42	0.42	0.09	
7440-43-9	Cadmium, Total	ND	0.85	0.06	U
7440-70-2	Calcium, Total	5300	8.5	2.6	
7440-47-3	Chromium, Total	14	0.85	0.17	
7440-48-4	Cobalt, Total	4.2	1.7	0.42	
7440-50-8	Copper, Total	13	0.85	0.17	
7439-89-6	Iron, Total	14000	4.2	1.7	
7439-92-1	Lead, Total	30	4.2	0.17	
7439-95-4	Magnesium, Total	1400	8.5	0.85	
7439-96-5	Manganese, Total	430	0.85	0.17	
7440-02-0	Nickel, Total	11	2.1	0.34	
7440-09-7	Potassium, Total	380	210	34.	
7782-49-2	Selenium, Total	ND	1.7	0.26	U
7440-22-4	Silver, Total	ND	0.85	0.17	U
7440-23-5	Sodium, Total	160	170	26.	J
7440-28-0	Thallium, Total	ND	1.7	0.34	U
7440-62-2	Vanadium, Total	17	0.85	0.09	
7440-66-6	Zinc, Total	29	4.2	0.60	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-18	Date Collected : 01/11/16 08:15
Client ID : SB-2 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 13:24
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4011216A.pcl	Instrument ID : FIMS4
Sample Amount : 0.378g	%Solids : 93
Digestion Method : EPA 7471B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.52	0.07	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 20:22
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.256g	%Solids : 95
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	8500	8.4	1.7	
7440-36-0	Antimony, Total	ND	4.2	0.67	U
7440-38-2	Arsenic, Total	8.3	0.84	0.17	
7440-39-3	Barium, Total	90	0.84	0.25	J
7440-41-7	Beryllium, Total	0.44	0.42	0.08	
7440-43-9	Cadmium, Total	ND	0.84	0.06	U
7440-70-2	Calcium, Total	5100	8.4	2.5	J
7440-47-3	Chromium, Total	14	0.84	0.17	
7440-48-4	Cobalt, Total	4.3	1.7	0.42	
7440-50-8	Copper, Total	33	0.84	0.17	
7439-89-6	Iron, Total	14000	4.2	1.7	
7439-92-1	Lead, Total	150	4.2	0.17	
7439-95-4	Magnesium, Total	3000	8.4	0.84	J
7439-96-5	Manganese, Total	500	0.84	0.17	
7440-02-0	Nickel, Total	7.9	2.1	0.34	
7440-09-7	Potassium, Total	430	210	34.	
7782-49-2	Selenium, Total	ND	0.27	1.7	J U
7440-22-4	Silver, Total	ND	0.84	0.17	U
7440-23-5	Sodium, Total	120	170	25.	J
7440-28-0	Thallium, Total	ND	1.7	0.34	U
7440-62-2	Vanadium, Total	18	0.84	0.08	
7440-66-6	Zinc, Total	93	4.2	0.59	

John
2/15/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-03	Date Collected : 01/06/16 11:00
Client ID : SB-3 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 14:25
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 95
Digestion Method : EPA 7471B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	2.2	0.07	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2) <i>C DUP of SB-3 0-2</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 20:26
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.27g	%Solids : 82
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	12000	9.6	1.9	
7440-36-0	Antimony, Total	ND	4.8	0.77	U
7440-38-2	Arsenic, Total	10	0.96	0.19	
7440-39-3	Barium, Total	160	0.96	0.29	J
7440-41-7	Beryllium, Total	0.61	0.48	0.10	
7440-43-9	Cadmium, Total	ND	0.96	0.07	U
7440-70-2	Calcium, Total	2200	9.6	2.9	J
7440-47-3	Chromium, Total	18	0.96	0.19	
7440-48-4	Cobalt, Total	5.5	1.9	0.48	
7440-50-8	Copper, Total	31	0.96	0.19	
7439-89-6	Iron, Total	19000	4.8	1.9	
7439-92-1	Lead, Total	140	4.8	0.19	
7439-95-4	Magnesium, Total	1700	9.6	0.96	J
7439-96-5	Manganese, Total	630	0.96	0.19	
7440-02-0	Nickel, Total	9.8	2.4	0.38	
7440-09-7	Potassium, Total	540	240	38.	
7782-49-2	Selenium, Total	ND	1.9	0.29	U
7440-22-4	Silver, Total	ND	0.96	0.19	U
7440-23-5	Sodium, Total	130	190	29.	J
7440-28-0	Thallium, Total	ND	1.9	0.38	U
7440-62-2	Vanadium, Total	24	0.96	0.10	
7440-66-6	Zinc, Total	140	4.8	0.67	

*pot
2/15/16*



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-04	Date Collected : 01/06/16 11:05
Client ID : SB-3A (0-2) <i>COPY of SB-3 0-2)</i>	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 14:27
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.382g	%Solids : 82
Digestion Method : EPA 7471B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	1.8	0.08	0.02	

JOP
01/05/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-15	Date Collected : 01/07/16 11:05
Client ID : SB-4 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:55
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.26g	%Solids : 87
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	12000	9.1	1.8	
7440-36-0	Antimony, Total	ND	4.6	0.73	U
7440-38-2	Arsenic, Total	6.1	0.91	0.18	
7440-39-3	Barium, Total	43	0.91	0.27	
7440-41-7	Beryllium, Total	0.35	0.46	0.09	J
7440-43-9	Cadmium, Total	ND	0.91	0.06	U
7440-70-2	Calcium, Total	1100	9.1	2.7	
7440-47-3	Chromium, Total	22	0.91	0.18	
7440-48-4	Cobalt, Total	6.6	1.8	0.46	
7440-50-8	Copper, Total	15	0.91	0.18	
7439-89-6	Iron, Total	22000	4.6	1.8	
7439-92-1	Lead, Total	2.4	4.6	0.18	J
7439-95-4	Magnesium, Total	2000	9.1	0.91	
7439-96-5	Manganese, Total	260	0.91	0.18	
7440-02-0	Nickel, Total	12	2.3	0.36	
7440-09-7	Potassium, Total	600	230	36.	
7782-49-2	Selenium, Total	ND	1.8	0.27	U
7440-22-4	Silver, Total	ND	0.91	0.18	U
7440-23-5	Sodium, Total	98	180	27.	J
7440-28-0	Thallium, Total	ND	1.8	0.36	U
7440-62-2	Vanadium, Total	29	0.91	0.09	
7440-66-6	Zinc, Total	29	4.6	0.64	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-15	Date Collected : 01/07/16 11:05
Client ID : SB-4 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 13:04
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.387g	%Solids : 87
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.08	0.07	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-16	Date Collected : 01/07/16 11:15
Client ID : SB-4 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:59
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.325g	%Solids : 98
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	2400	7.7	1.5	
7440-36-0	Antimony, Total	ND	3.8	0.61	U
7440-38-2	Arsenic, Total	3.8	0.77	0.15	
7440-39-3	Barium, Total	22	0.77	0.23	
7440-41-7	Beryllium, Total	0.17	0.38	0.08	J
7440-43-9	Cadmium, Total	ND	0.77	0.05	U
7440-70-2	Calcium, Total	170	7.7	2.3	
7440-47-3	Chromium, Total	6.4	0.77	0.15	
7440-48-4	Cobalt, Total	2.7	1.5	0.38	
7440-50-8	Copper, Total	7.3	0.77	0.15	
7439-89-6	Iron, Total	20000	3.8	1.5	
7439-95-4	Magnesium, Total	710	7.7	0.77	
7439-96-5	Manganese, Total	410	0.77	0.15	
7440-02-0	Nickel, Total	6.0	1.9	0.31	
7440-09-7	Potassium, Total	240	190	31.	
7782-49-2	Selenium, Total	ND	1.5	0.23	U
7440-22-4	Silver, Total	ND	0.77	0.15	U
7440-23-5	Sodium, Total	24	150	23.	J
7440-28-0	Thallium, Total	ND	1.5	0.31	U
7440-62-2	Vanadium, Total	9.1	0.77	0.08	
7440-66-6	Zinc, Total	10	3.8	0.54	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-16 Client ID : SB-4 (12-14) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,6010C Lab File ID : 011116.txt_t4.txt Sample Amount : 1.325g Digestion Method : EPA 3050B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/07/16 11:15 Date Received : 01/07/16 Date Analyzed : 01/11/16 14:19 Dilution Factor : 10 Analyst : PS Instrument ID : TRACE4 %Solids : 98 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-92-1	Lead, Total	ND	19	0.77	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-16	Date Collected : 01/07/16 11:15
Client ID : SB-4 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 13:16
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.378g	%Solids : 98
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.01	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-08	Date Collected : 01/07/16 09:45
Client ID : SB-5 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:11
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.278g	%Solids : 87
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	11000	9.0	1.8	
7440-36-0	Antimony, Total	ND	4.5	0.72	U
7440-38-2	Arsenic, Total	6.5	0.90	0.18	
7440-39-3	Barium, Total	63	0.90	0.27	
7440-41-7	Beryllium, Total	0.53	0.45	0.09	
7440-43-9	Cadmium, Total	ND	0.90	0.06	U
7440-70-2	Calcium, Total	1500	9.0	2.7	
7440-47-3	Chromium, Total	20	0.90	0.18	
7440-48-4	Cobalt, Total	6.5	1.8	0.45	
7440-50-8	Copper, Total	14	0.90	0.18	
7439-89-6	Iron, Total	25000	4.5	1.8	
7439-92-1	Lead, Total	0.61	4.5	0.18	J
7439-95-4	Magnesium, Total	2000	9.0	0.90	
7439-96-5	Manganese, Total	320	0.90	0.18	
7440-02-0	Nickel, Total	12	2.2	0.36	
7440-09-7	Potassium, Total	520	220	36.	
7782-49-2	Selenium, Total	ND	1.8	0.27	U
7440-22-4	Silver, Total	ND	0.90	0.18	U
7440-23-5	Sodium, Total	120	180	27.	J
7440-28-0	Thallium, Total	ND	1.8	0.36	U
7440-62-2	Vanadium, Total	30	0.90	0.09	
7440-66-6	Zinc, Total	27	4.5	0.63	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-08 Client ID : SB-5 (0-2) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4010816A.pcl Sample Amount : 0.398g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/07/16 09:45 Date Received : 01/07/16 Date Analyzed : 01/08/16 12:47 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 87 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.10	0.07	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:31
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.327g	%Solids : 98
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4000	7.7	1.5	
7440-36-0	Antimony, Total	ND	3.8	0.62	U
7440-38-2	Arsenic, Total	4.2	0.77	0.15	
7440-39-3	Barium, Total	19	0.77	0.23	
7440-41-7	Beryllium, Total	0.18	0.38	0.08	J
7440-43-9	Cadmium, Total	ND	0.77	0.05	U
7440-70-2	Calcium, Total	2400	7.7	2.3	
7440-47-3	Chromium, Total	12	0.77	0.15	
7440-48-4	Cobalt, Total	3.9	1.5	0.38	
7440-50-8	Copper, Total	11	0.77	0.15	
7439-89-6	Iron, Total	19000	3.8	1.5	
7439-95-4	Magnesium, Total	1200	7.7	0.77	
7439-96-5	Manganese, Total	320	0.77	0.15	
7440-02-0	Nickel, Total	7.5	1.9	0.31	
7440-09-7	Potassium, Total	450	190	31.	
7782-49-2	Selenium, Total	ND	1.5	0.23	U
7440-22-4	Silver, Total	ND	0.77	0.15	U
7440-23-5	Sodium, Total	60	150	23.	J
7440-28-0	Thallium, Total	ND	1.5	0.31	U
7440-62-2	Vanadium, Total	15	0.77	0.08	
7440-66-6	Zinc, Total	15	3.8	0.54	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/11/16 14:15
Sample Matrix : SOIL	Dilution Factor : 10
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : 011116.txt_t4.txt	Instrument ID : TRACE4
Sample Amount : 1.327g	%Solids : 98
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-92-1	Lead, Total	ND	19	0.77	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-09	Date Collected : 01/07/16 09:35
Client ID : SB-5 (12-14)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:49
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 98
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.01	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 17:50
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.26g	%Solids : 84
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4800	9.4	1.9	
7440-36-0	Antimony, Total	ND	4.7	0.76	U
7440-38-2	Arsenic, Total	8.2	0.94	0.19	
7440-39-3	Barium, Total	26	0.94	0.28	
7440-41-7	Beryllium, Total	0.26	0.47	0.09	J
7440-43-9	Cadmium, Total	ND	0.94	0.07	U
7440-70-2	Calcium, Total	910	9.4	2.8	
7440-47-3	Chromium, Total	15	0.94	0.19	J
7440-48-4	Cobalt, Total	3.8	1.9	0.47	
7440-50-8	Copper, Total	18	0.94	0.19	
7439-89-6	Iron, Total	20000	4.7	1.9	
7439-92-1	Lead, Total	26	4.7	0.19	J
7439-95-4	Magnesium, Total	1200	9.4	0.94	J
7439-96-5	Manganese, Total	350	0.94	0.19	
7440-02-0	Nickel, Total	7.8	2.4	0.38	
7440-09-7	Potassium, Total	390	240	38.	
7782-49-2	Selenium, Total	ND	1.9	0.28	U
7440-22-4	Silver, Total	ND	0.94	0.19	U
7440-23-5	Sodium, Total	430	190	28.	
7440-28-0	Thallium, Total	ND	1.9	0.38	U
7440-62-2	Vanadium, Total	20	0.94	0.09	
7440-66-6	Zinc, Total	33	4.7	0.66	

Sent 2/15/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-01	Date Collected : 01/06/16 10:00
Client ID : SB-6 (0-2)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 14:11
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.387g	%Solids : 84
Digestion Method : EPA 7471B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.14	0.08	0.02	J+

J+ 01/21/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-02	Date Collected : 01/06/16 10:10
Client ID : SB-6 (12-14)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 20:18
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 1.277g	%Solids : 97
Digestion Method : EPA 3050B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	1900	8.1	1.6	
7440-36-0	Antimony, Total	ND	4.0	0.65	U
7440-38-2	Arsenic, Total	4.3	0.81	0.16	
7440-39-3	Barium, Total	17	0.81	0.24	
7440-41-7	Beryllium, Total	0.11	0.40	0.08	J
7440-43-9	Cadmium, Total	ND	0.81	0.06	U
7440-70-2	Calcium, Total	200	8.1	2.4	
7440-47-3	Chromium, Total	6.4	0.81	0.16	
7440-48-4	Cobalt, Total	2.1	1.6	0.40	
7440-50-8	Copper, Total	6.4	0.81	0.16	
7439-89-6	Iron, Total	12000	4.0	1.6	
7439-92-1	Lead, Total	ND	4.0	0.16	U
7439-95-4	Magnesium, Total	630	8.1	0.81	
7439-96-5	Manganese, Total	210	0.81	0.16	
7440-02-0	Nickel, Total	4.6	2.0	0.32	
7440-09-7	Potassium, Total	350	200	32.	
7782-49-2	Selenium, Total	ND	1.6	0.24	U
7440-22-4	Silver, Total	ND	0.81	0.16	U
7440-23-5	Sodium, Total	43	160	24.	J
7440-28-0	Thallium, Total	ND	1.6	0.32	U
7440-62-2	Vanadium, Total	8.5	0.81	0.08	
7440-66-6	Zinc, Total	8.6	4.0	0.56	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-02	Date Collected : 01/06/16 10:10
Client ID : SB-6 (12-14)	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/07/16 14:19
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010716A.pcl	Instrument ID : FIMS4
Sample Amount : 0.38g	%Solids : 97
Digestion Method : EPA 7471B	Date Digested : 01/07/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.01	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:35
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.32g	%Solids : 86
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4800	8.8	1.8	
7440-36-0	Antimony, Total	ND	4.4	0.70	U
7440-38-2	Arsenic, Total	11	0.88	0.18	
7440-39-3	Barium, Total	34	0.88	0.26	
7440-41-7	Beryllium, Total	0.26	0.44	0.09	J
7440-43-9	Cadmium, Total	ND	0.88	0.06	U
7440-70-2	Calcium, Total	4100	8.8	2.6	
7440-47-3	Chromium, Total	20	0.88	0.18	
7440-48-4	Cobalt, Total	6.4	1.8	0.44	
7440-50-8	Copper, Total	16	0.88	0.18	
7439-89-6	Iron, Total	24000	4.4	1.8	
7439-92-1	Lead, Total	6.4	4.4	0.18	
7439-95-4	Magnesium, Total	1500	8.8	0.88	
7439-96-5	Manganese, Total	420	0.88	0.18	
7440-02-0	Nickel, Total	15	2.2	0.35	
7440-09-7	Potassium, Total	510	220	35.	
7782-49-2	Selenium, Total	ND	1.8	0.26	U
7440-22-4	Silver, Total	ND	0.88	0.18	U
7440-23-5	Sodium, Total	150	180	26.	J
7440-28-0	Thallium, Total	ND	1.8	0.35	U
7440-62-2	Vanadium, Total	23	0.88	0.09	
7440-66-6	Zinc, Total	31	4.4	0.62	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-10	Date Collected : 01/07/16 10:00
Client ID : SB-7 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 12:51
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.382g	%Solids : 86
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.03	0.08	0.02	J



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-12	Date Collected : 01/07/16 10:30
Client ID : SB-8 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:43
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.302g	%Solids : 98
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	4200	7.8	1.6	
7440-36-0	Antimony, Total	ND	3.9	0.63	U
7440-38-2	Arsenic, Total	5.3	0.78	0.16	
7440-39-3	Barium, Total	27	0.78	0.23	
7440-41-7	Beryllium, Total	0.20	0.39	0.08	J
7440-43-9	Cadmium, Total	ND	0.78	0.06	U
7440-70-2	Calcium, Total	5300	7.8	2.3	
7440-47-3	Chromium, Total	16	0.78	0.16	
7440-48-4	Cobalt, Total	4.6	1.6	0.39	
7440-50-8	Copper, Total	15	0.78	0.16	
7439-89-6	Iron, Total	22000	3.9	1.6	
7439-92-1	Lead, Total	ND	3.9	0.16	U
7439-95-4	Magnesium, Total	1300	7.8	0.78	
7439-96-5	Manganese, Total	410	0.78	0.16	
7440-02-0	Nickel, Total	10	2.0	0.31	
7440-09-7	Potassium, Total	490	200	31.	
7782-49-2	Selenium, Total	ND	1.6	0.23	U
7440-22-4	Silver, Total	ND	0.78	0.16	U
7440-23-5	Sodium, Total	62	160	23.	J
7440-28-0	Thallium, Total	ND	1.6	0.31	U
7440-62-2	Vanadium, Total	19	0.78	0.08	
7440-66-6	Zinc, Total	24	3.9	0.55	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-12 Client ID : SB-8 (0-2) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4010816A.pcl Sample Amount : 0.388g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/07/16 10:30 Date Received : 01/07/16 Date Analyzed : 01/08/16 12:54 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 98 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.05	0.07	0.01	J



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-14	Date Collected : 01/07/16 10:45
Client ID : SB-9 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:51
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.271g	%Solids : 91
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	7900	8.7	1.7	
7440-36-0	Antimony, Total	ND	4.3	0.69	U
7440-38-2	Arsenic, Total	14	0.87	0.17	
7440-39-3	Barium, Total	47	0.87	0.26	
7440-41-7	Beryllium, Total	0.45	0.43	0.09	
7440-43-9	Cadmium, Total	ND	0.87	0.06	U
7440-70-2	Calcium, Total	800	8.7	2.6	
7440-47-3	Chromium, Total	15	0.87	0.17	
7440-48-4	Cobalt, Total	22	1.7	0.43	
7440-50-8	Copper, Total	13	0.87	0.17	
7439-89-6	Iron, Total	25000	4.3	1.7	
7439-92-1	Lead, Total	17	4.3	0.17	
7439-95-4	Magnesium, Total	1400	8.7	0.87	
7439-96-5	Manganese, Total	360	0.87	0.17	
7440-02-0	Nickel, Total	62	2.2	0.35	
7440-09-7	Potassium, Total	340	220	35.	
7782-49-2	Selenium, Total	ND	1.7	0.26	U
7440-22-4	Silver, Total	ND	0.87	0.17	U
7440-23-5	Sodium, Total	82	170	26.	J
7440-28-0	Thallium, Total	ND	1.7	0.35	U
7440-62-2	Vanadium, Total	21	0.87	0.09	
7440-66-6	Zinc, Total	140	4.3	0.61	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-14 Client ID : SB-9 (0-2) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4010816A.pcl Sample Amount : 0.365g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/07/16 10:45 Date Received : 01/07/16 Date Analyzed : 01/08/16 12:58 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 91 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.07	0.08	0.02	J



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:18
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.271g	%Solids : 91
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	5400	8.6	1.7	
7440-36-0	Antimony, Total	1.8	4.3	0.69	J
7440-38-2	Arsenic, Total	5.0	0.86	0.17	
7440-39-3	Barium, Total	110	0.86	0.26	
7440-41-7	Beryllium, Total	0.35	0.43	0.09	J
7440-43-9	Cadmium, Total	ND	0.86	0.06	U
7440-70-2	Calcium, Total	16000	8.6	2.6	
7440-47-3	Chromium, Total	11	0.86	0.17	
7440-48-4	Cobalt, Total	4.4	1.7	0.43	
7440-50-8	Copper, Total	30	0.86	0.17	
7439-89-6	Iron, Total	15000	4.3	1.7	
7439-92-1	Lead, Total	190	4.3	0.17	
7439-95-4	Magnesium, Total	2700	8.6	0.86	
7439-96-5	Manganese, Total	310	0.86	0.17	
7440-02-0	Nickel, Total	9.2	2.2	0.34	
7440-09-7	Potassium, Total	560	220	34.	
7782-49-2	Selenium, Total	NO 0.61	1.7	0.26	J U
7440-22-4	Silver, Total	ND	0.86	0.17	U
7440-23-5	Sodium, Total	200	170	26.	
7440-28-0	Thallium, Total	ND	1.7	0.34	U
7440-62-2	Vanadium, Total	17	0.86	0.09	
7440-66-6	Zinc, Total	140	4.3	0.60	

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Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-19	Date Collected : 01/11/16 08:50
Client ID : SB-10 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 13:26
Sample Matrix : SOIL	Dilution Factor : 1
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4011216A.pcl	Instrument ID : FIMS4
Sample Amount : 0.398g	%Solids : 91
Digestion Method : EPA 7471B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.25	0.07	0.01	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-20	Date Collected : 01/11/16 09:10
Client ID : SB-10 (12-14)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:22
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.292g	%Solids : 96
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	3800	8.0	1.6	
7440-36-0	Antimony, Total	ND	4.0	0.64	U
7440-38-2	Arsenic, Total	1.4	0.80	0.16	
7440-39-3	Barium, Total	29	0.80	0.24	
7440-41-7	Beryllium, Total	0.18	0.40	0.08	J
7440-43-9	Cadmium, Total	ND	0.80	0.06	U
7440-70-2	Calcium, Total	590	8.0	2.4	
7440-47-3	Chromium, Total	14	0.80	0.16	
7440-48-4	Cobalt, Total	3.7	1.6	0.40	
7440-50-8	Copper, Total	13	0.80	0.16	
7439-89-6	Iron, Total	18000	4.0	1.6	
7439-92-1	Lead, Total	3.0	4.0	0.16	J
7439-95-4	Magnesium, Total	1000	8.0	0.80	
7439-96-5	Manganese, Total	460	0.80	0.16	
7440-02-0	Nickel, Total	9.5	2.0	0.32	
7440-09-7	Potassium, Total	390	200	32.	
7782-49-2	Selenium, Total	ND	1.6	0.24	U
7440-22-4	Silver, Total	ND	0.80	0.16	U
7440-23-5	Sodium, Total	39	160	24.	J
7440-28-0	Thallium, Total	ND	1.6	0.32	U
7440-62-2	Vanadium, Total	15	0.80	0.08	
7440-66-6	Zinc, Total	25	4.0	0.56	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-20 Client ID : SB-10 (12-14) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4011216A.pcl Sample Amount : 0.381g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/11/16 09:10 Date Received : 01/11/16 Date Analyzed : 01/12/16 13:27 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 96 Date Digested : 01/12/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.07	0.01	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:07
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.257g	%Solids : 81
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	8700	9.8	2.0	
7440-36-0	Antimony, Total	1.1	4.9	0.79	J
7440-38-2	Arsenic, Total	6.6	0.98	0.20	
7440-39-3	Barium, Total	84	0.98	0.30	
7440-41-7	Beryllium, Total	0.34	0.49	0.10	J
7440-43-9	Cadmium, Total	ND	0.98	0.07	U
7440-70-2	Calcium, Total	4800	9.8	3.0	
7440-47-3	Chromium, Total	14	0.98	0.20	
7440-48-4	Cobalt, Total	5.0	2.0	0.49	
7440-50-8	Copper, Total	88	0.98	0.20	
7439-89-6	Iron, Total	17000	4.9	2.0	
7439-92-1	Lead, Total	290	4.9	0.20	
7439-95-4	Magnesium, Total	2300	9.8	0.98	
7439-96-5	Manganese, Total	420	0.98	0.20	
7440-02-0	Nickel, Total	9.8	2.5	0.39	
7440-09-7	Potassium, Total	590	250	39.	
7782-49-2	Selenium, Total	ND	2.0	0.30	U
7440-22-4	Silver, Total	ND	0.98	0.20	U
7440-23-5	Sodium, Total	500	200	30.	
7440-28-0	Thallium, Total	ND	2.0	0.39	U
7440-62-2	Vanadium, Total	22	0.98	0.10	
7440-66-6	Zinc, Total	110	4.9	0.69	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-07	Date Collected : 01/07/16 07:50
Client ID : SB-11 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 13:12
Sample Matrix : SOIL	Dilution Factor : 3
Analytical Method : 1,7471B	Analyst : DB
Lab File ID : Hg4010816A.pcl	Instrument ID : FIMS4
Sample Amount : 0.387g	%Solids : 81
Digestion Method : EPA 7471B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	5.4	0.24	0.05	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-21	Date Collected : 01/11/16 09:30
Client ID : SB-12 (0-2)	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 15:26
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : JH
Lab File ID : WG857216.pdf	Instrument ID : TRACE6
Sample Amount : 1.292g	%Solids : 91
Digestion Method : EPA 3050B	Date Digested : 01/12/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	8100	8.6	1.7	
7440-36-0	Antimony, Total	ND	4.3	0.68	U
7440-38-2	Arsenic, Total	4.3	0.86	0.17	
7440-39-3	Barium, Total	83	0.86	0.26	
7440-41-7	Beryllium, Total	0.45	0.43	0.09	
7440-43-9	Cadmium, Total	ND	0.86	0.06	U
7440-70-2	Calcium, Total	1600	8.6	2.6	
7440-47-3	Chromium, Total	13	0.86	0.17	
7440-48-4	Cobalt, Total	3.4	1.7	0.43	
7440-50-8	Copper, Total	17	0.86	0.17	
7439-89-6	Iron, Total	14000	4.3	1.7	
7439-92-1	Lead, Total	170	4.3	0.17	
7439-95-4	Magnesium, Total	1000	8.6	0.86	
7439-96-5	Manganese, Total	380	0.86	0.17	
7440-02-0	Nickel, Total	7.3	2.1	0.34	
7440-09-7	Potassium, Total	290	210	34.	
7782-49-2	Selenium, Total	0.38	1.7	0.26	J
7440-22-4	Silver, Total	ND	0.86	0.17	U
7440-23-5	Sodium, Total	52	170	26.	J
7440-28-0	Thallium, Total	ND	1.7	0.34	U
7440-62-2	Vanadium, Total	17	0.86	0.09	
7440-66-6	Zinc, Total	72	4.3	0.60	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-21 Client ID : SB-12 (0-2) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4011216A.pcl Sample Amount : 0.376g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/11/16 09:30 Date Received : 01/11/16 Date Analyzed : 01/12/16 13:29 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 91 Date Digested : 01/12/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.74	0.07	0.02	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-11	Date Collected : 01/07/16 10:10
Client ID : SB-13 (0-2)	Date Received : 01/07/16
Sample Location : QUEENS, NY	Date Analyzed : 01/08/16 23:39
Sample Matrix : SOIL	Dilution Factor : 2
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG855717.pdf	Instrument ID : TRACE4
Sample Amount : 1.251g	%Solids : 87
Digestion Method : EPA 3050B	Date Digested : 01/08/16

CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	7800	9.1	1.8	
7440-36-0	Antimony, Total	ND	4.6	0.73	U
7440-38-2	Arsenic, Total	5.0	0.91	0.18	
7440-39-3	Barium, Total	64	0.91	0.27	
7440-41-7	Beryllium, Total	0.30	0.46	0.09	J
7440-43-9	Cadmium, Total	ND	0.91	0.06	U
7440-70-2	Calcium, Total	11000	9.1	2.7	
7440-47-3	Chromium, Total	13	0.91	0.18	
7440-48-4	Cobalt, Total	5.3	1.8	0.46	
7440-50-8	Copper, Total	14	0.91	0.18	
7439-89-6	Iron, Total	16000	4.6	1.8	
7439-92-1	Lead, Total	58	4.6	0.18	
7439-95-4	Magnesium, Total	3000	9.1	0.91	
7439-96-5	Manganese, Total	370	0.91	0.18	
7440-02-0	Nickel, Total	13	2.3	0.36	
7440-09-7	Potassium, Total	710	230	36.	
7782-49-2	Selenium, Total	ND	1.8	0.27	U
7440-22-4	Silver, Total	ND	0.91	0.18	U
7440-23-5	Sodium, Total	180	180	27.	
7440-28-0	Thallium, Total	ND	1.8	0.36	U
7440-62-2	Vanadium, Total	22	0.91	0.09	
7440-66-6	Zinc, Total	30	4.6	0.64	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-11 Client ID : SB-13 (0-2) Sample Location : QUEENS, NY Sample Matrix : SOIL Analytical Method : 1,7471B Lab File ID : Hg4010816A.pcl Sample Amount : 0.384g Digestion Method : EPA 7471B	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/07/16 10:10 Date Received : 01/07/16 Date Analyzed : 01/08/16 12:53 Dilution Factor : 1 Analyst : DB Instrument ID : FIMS4 %Solids : 87 Date Digested : 01/08/16
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CAS NO.	Parameter	mg/kg			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	0.06	0.07	0.02	J



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1600381
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600381-05	Date Collected : 01/06/16 12:50
Client ID : FIELD BLANK-1	Date Received : 01/06/16
Sample Location : QUEENS, NY	Date Analyzed : 01/12/16 22:55
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6010C	Analyst : PS
Lab File ID : WG856502.pdf	Instrument ID : TRACE4
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/07/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	ND	0.10	0.020	U
7440-36-0	Antimony, Total	ND	0.0500	0.0080	U
7440-38-2	Arsenic, Total	ND	0.0050	0.0020	U
7440-39-3	Barium, Total	ND	0.0100	0.0030	U
7440-41-7	Beryllium, Total	ND	0.0050	0.0010	U
7440-43-9	Cadmium, Total	ND	0.0050	0.0007	U
7440-70-2	Calcium, Total	ND	0.10	0.030	U
7440-47-3	Chromium, Total	ND	0.010	0.0020	U
7440-48-4	Cobalt, Total	ND	0.0200	0.0050	U
7440-50-8	Copper, Total	ND	0.0100	0.0020	U
7439-89-6	Iron, Total	0.048	0.050	0.020	J
7439-92-1	Lead, Total	ND	0.0100	0.0020	U
7439-95-4	Magnesium, Total	ND	0.10	0.010	U
7439-96-5	Manganese, Total	ND	0.0100	0.0020	U
7440-02-0	Nickel, Total	ND	0.0250	0.0040	U
7440-09-7	Potassium, Total	ND	2.5	0.40	U
7782-49-2	Selenium, Total	ND	0.0100	0.0030	U
7440-22-4	Silver, Total	ND	0.0070	0.0020	U
7440-23-5	Sodium, Total	ND	2.0	0.30	U
7440-28-0	Thallium, Total	ND	0.0200	0.0040	U
7440-62-2	Vanadium, Total	ND	0.0100	0.0010	U
7440-66-6	Zinc, Total	ND	0.0500	0.0070	U



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1600381-05 Client ID : FIELD BLANK-1 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,7470A Lab File ID : Hg4010716C.pcl Sample Amount : 25ml Digestion Method : EPA 7470A	Lab Number : L1600381 Project Number : 12292 Date Collected : 01/06/16 12:50 Date Received : 01/06/16 Date Analyzed : 01/07/16 19:51 Dilution Factor : 1 Analyst : EA Instrument ID : FIMS4 %Solids : N/A Date Digested : 01/07/16
---	---

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U



DATA USABILITY SUMMARY REPORT (DUSR)

ORGANIC ANALYSIS

**EPA Compendium Method TO-15
LOW LEVEL VOLATILES BY GC/MS
For Soil Vapor Air Samples Collected**

January 11, 2016

From 94-02 148th Street & 147-20 94th Avenue, Queens, New York

by AKRF, Inc.

Project: 12292

SAMPLE DELIVERY GROUP NUMBER: L1600773

Alpha Analytical (ELAP #11148)

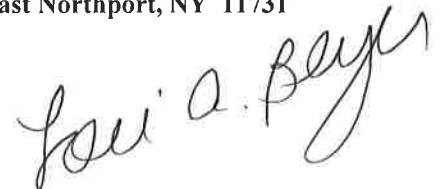
SUBMITTED TO:

**Mr. Steve Grens
AKRF, Inc.
440 Park Avenue South
New York, New York 10016**

February 07, 2016

PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**



94-02 148th & 147-20 94th Avenue, Queens, New York; January 2016.
Data Validation Report: Volatile Organics

Table of Contents:

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APPENDICES:

- A. Chain of Custody Document
- B. Case Narrative
- C. Data Summary Form Is with Qualifications

Introduction:

A validation was performed on seven (7) soil vapor air samples for Volatile Organic analysis collected by AKRF, Inc. and submitted to Alpha Analytical for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the seven (7) field samples itemized below. The samples were collected on January 11, 2016.

The samples were analyzed by Alpha Analytical utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2005) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the TO-15 Compound List.

The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6-Updated June 2014) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following field air samples:

Sample Identification	Laboratory Identification	Sample Matrix (Air Type)	Collection Date
SV-1	L1600773-01	Soil Vapor	1/11/2016
SV-2	L1600773-02	Soil Vapor	1/11/2016
SV-3	L1600773-03	Soil Vapor	1/11/2016
SV-4	L1600773-04	Soil Vapor	1/11/2016
SV-5	L1600773-05	Soil Vapor	1/11/2016
SV-7	L1600773-07	Soil Vapor	1/11/2016
SV-8	L1600773-08	Soil Vapor	1/11/2016

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

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

J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ - The result is an estimated quantity, but the result may be biased high.

J- - The result is an estimated quantity, but the result may be biased low.

NJ - The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

UJ - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

D - Analyte concentration was obtained from diluted analysis.

Sample Receipt:

The Chain of Custody document from 01/11/16 indicates that the air samples were received on 01/12/16 via laboratory courier following completion of the sampling event. Sample login notes and the chain of custody indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory the summa canister was compromised for SV-6 and therefore analysis could not be conducted from this location.

No unresolved discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. Initial pressure gauge is recorded on the chain of custody and is required to be approximately 30 psi with zero air. Acceptable canister pressure was observed for these samples.

The narrative discussion of the lab report documents that SV-2, SV-4 and SV-5 had an RPD for pre and post flow controller calibration check >20% RPD. No qualifications were applied based on this deviation.

The data summary Form I's included in Appendix C includes all usable (qualified) and unusable (rejected) results for the samples identified above and summarize the detailed narrative section of the report. All data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

Volatile Organics by EPA Compendium Method TO-15

The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Field/Laboratory Duplicate, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results were considered to be valid and useable as noted on the data summary Form I's in Appendix C and within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Air samples pertaining to this SDG were performed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

1.2 Surrogate Standards

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Samples were not spiked with surrogate standards. Method TO15 does not mandate the addition of surrogate standards.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Laboratory Duplicate /Field Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate analysis was not performed on samples pertaining to this SDG.

Laboratory duplicate analysis was submitted with this data package and performed on a non-site specific sample. Acceptable precision (RPD); <25% was observed for detected compounds.

Field Duplicate analysis was not required for this sampling event. Acceptable precision for air samples is 25%. The following criteria are utilized for Field Duplicate analysis when performed:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent of duplicate sample. However, the detected concentration was $\leq 2x$ the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample However, the detected concentration was $> 2x$ the reporting limit.	J in the parent and duplicate sample	UJ in the parent of duplicate sample

No qualifications to the data were applied based on MS/MSD/Laboratory Duplicate and Field Duplicate analysis.

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

LCS	NOT QUALIFIED	J	R
% Recovery:			
Detects	70-130%	<70%, >130%	
Non-Detects	$\geq 130\%$	50-69%	<50%
Absolute RT of LCS Compounds:			
LCS Compounds in samples RT: (min)	± 0.33		≥ 0.33

Acceptable LCS was analyzed with this SDG pertaining to this sampling event. Recovery values for all spiked compounds was determined to be >70%-<130% for all analytes with the exception of 1,2,4-Trichlorobenzene which recovered high at 131%. This compound was not detected in any of the associated field samples and therefore no qualifications to the data is required since high recoveries do not support any potential loss of detection.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media.

The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	<= CRQL*	Report CRQL value with a U
		>=CRQL* and <= blank concentration	Report blank value for sample concentration with a U
		>= CRQL* and > blank concentration	No qualification required
	=CRQL*	<= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
Gross Contamination**	Detects	Report blank value for sample concentration with a U	

*2x the CRQL for methylene chloride, 2-butanone and acetone.

**4x the CRQL for methylene chloride, 2-butanone, and acetone

***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

The table below is utilized to qualify samples with target compound results also present in certification blanks:

Certification Contamination	Sample Result	Action for Sample
>/=detect limit	>5x certification contamination	No qualification required
>/=detect limit	<detect limit	Detection limit "U"
>/=detect limit	>/=detect limit and </= 5x certification contamination level	5x certification contamination "U"
<detect limit	</=detection limit and >/= detection limit	No qualification

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:

Method and Canister blanks were determined to be free of any contamination.

B) Field Blank Contamination:

Field Blank analysis was not required for this SDG.

C) Trip Blank Contamination:

Trip Blank analysis was not required for this SDG.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

The following compounds are allowed to be > 0.01 without qualification:

2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,2-Dibromoethane
1,2-Dichloropropane
1,4-Dioxane
1,2-Dibromo-3-chloropropane
Methylene Chloride

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) [or ≥ 0.01 for the 9 compounds above] and remaining analytes, for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) for all requested target compounds. Initial calibration verification standard also met QC requirements.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) for all reported compounds .

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis pertaining to this data set as compared to the continuing calibration.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectra which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.10 Tentatively Identified Compounds (TICs)

TICs were reported in accordance with the project requirements. The identification must be considered tentative (both quantitative and qualitative) due to the lack of required compound specific response factors. Consequently all concentrations should be considered estimated, "J" and as a result of the qualitative uncertainty should be qualified, "N" where an identification has been made.

TICs were not required with this data set.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.

Sample results have been presented in ug/m³ as well as ppbv on the laboratory reporting forms.

All samples were analyzed undiluted at 250mls with exceptions noted below:

SV-2 – 1.73 ml

SV-3 – 75ml

SV-3 – 200ml

1.12 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature Lou A. Beyer Date 02/07/2016

**Appendix A
Chain of Custody**



AIR ANALYSIS

CHAIN OF CUSTODY
320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: ALRF
Address: 440 Park Ave South - 7th Fl.
New York, NY 10016
Phone: (631) 574-3724
Fax:

Email: Smali.novak@airflow.com / Sjones@airflow.com
 These samples have been previously analyzed by Alpha
Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

Project Information
Project Name: Q4-02 14th and 17th
Project Location: Queens, NY
Project #: 12292
Project Manager: Steve Malinowski / Sjones
ALPHA Quote #:
Turn-Around Time

Standard RUSH (only confirmed if pre-approved)
Date Due: _____
Time: _____

Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
Report to: (if different than Project Manager)

Date Rec'd in Lab: 1/12/10
Report Information - Data Deliverables

ALPHA Job #: L1600773
Billing Information
 Same as Client Info PO #:
Regulatory Requirements/Report Limits
State/Fed Program
NYSDOH
Res / Comm

ANALYSIS
 Subst Non-petroleum HCA
 Fixed Gases
 Solides & Mercaptans by TO-15
 TO-15 SIM
 TO-15

Sample Comments (i.e. PID)

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION			Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)
		End Date	Start Time	End Time						
00773-01	SV-1	1/11/16	09:30	10:30	28.71	5.45	SV	SL	6L	2117 0472X
02	SV-2	09:40	11:27	29.05	3.62	SV				967-0154X
03	SV-3	09:00	11:00	29.6	2.88	SV				1400 0719X
04	SV-4	09:25	10:58	30.34	3.25	SV				984 0701X
05	SV-5	0850	10:44	29.45	3.02	SV				11006 0259X
06	SV-6	0811	10:11	29.8	4.81	SV				1801 0173X
07	SV-7	0850	10:14	29.60	4.03	SV				972 0430X
08	SV-9	0913	1111	30.47	6.32	SV				900 0927X

*SAMPLE MATRIX CODES
AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Relinquished By: _____ Date/Time: 1/11/16 12:00
Received By: Tom Williams Date/Time: 1/11/16 18:30
Tom Williams Date/Time: 1/11/16 21:00
Tom Williams Date/Time: 1/12/16 00:45

Container Type CS SV
Date/Time: _____

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.



Sample Delivery Group Form

Laboratory Job number: L1600773

Project Manager: Chris Anderson

Review Date: 01/14/2016

Project Number: 12292

Project Name: 94-02 148TH ST&147-20 94TH AVE

Received: 01/11/2016 13:30

Client Account: AKRF, Inc.

Received by: KB

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Intact

Sample IDs

All Containers Accounted For? Yes

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? No

Aqueous: Do Vials Contain Head Space? N/A

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
N/A	Present/Intact	No	No	-	No	No

**Appendix B
Case Narrative**

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600773
Report Date: 01/18/16

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEX data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600773
Report Date: 01/18/16

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on January 4, 2016. The canister certification results are provided as an addendum.

Samples L1600773-02, -03, and -05: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples

The WG857390-3 LCS recovery for 1,2,4-Trichlorobenzene (131%) is above the upper 130% acceptance limit. The response for this compound was elevated however it was not detected in any of the associated samples therefore no further action was required.

Sample Receipt

The sample designated SV-6 was received in a canister that had been structurally compromised when received back at the laboratory. The client was contacted and the sample was cancelled.

The sample designated SV-2 (L1600773-02) had a RPD for the pre- and post-flow controller calibration check (42% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 38 mL/minute; the final flow rate was 58 mL/minute. The final pressure recorded by the laboratory of the associated canister was -1.5 inches of mercury. No further action was required.

The sample designated SV-4 (L1600773-04) had a RPD for the pre- and post-flow controller calibration check (37% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 40 mL/minute; the final flow rate was 58 mL/minute. The final pressure recorded by the laboratory of the associated canister was -1.0 inches of mercury. No further action was required.

The sample designated SV-5 (L1600773-05) had a RPD for the pre- and post-flow controller calibration check (32% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 40 mL/minute; the final flow rate was 55 mL/minute. The final pressure recorded by the laboratory of the

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1600773
Report Date: 01/18/16

Case Narrative (continued)

associated canister was -2.3 inches of mercury. No further action was required.

The sample designated SV-6 (L1600773-06) had a RPD for the pre- and post-flow controller calibration check (70% RPD) that was outside of the control limit (20% RPD). The initial flow rate for the flow controller was 39 mL/minute; the final flow rate was 18.8 mL/minute. The final pressure recorded by the laboratory of the associated canister was 0.0 inches of mercury. No further action was 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: *Christopher J. Anderson*

Report Date: 01/18/16

Title: Technical Director/Representative



Project Name: 94-02 148TH ST&147-20 94TH AVE

Lab Number: L1600773

Project Number: 12292

Report Date: 01/18/16

Canister and Flow Controller Information

Samplem	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
L1600773-01	SV-1	0472	#30 SV	01/04/16	214904		-	-	-	Pass	39	42	7
L1600773-01	SV-1	2117	6.0L Can	01/04/16	214904	L1533053-02	Pass	-30.0	-4.1	-	-	-	-
L1600773-02	SV-2	0154	#90 SV	01/04/16	214904		-	-	-	Pass	38	58	42
L1600773-02	SV-2	967	6.0L Can	01/04/16	214904	L1533053-02	Pass	-29.2	-1.5	-	-	-	-
L1600773-03	SV-3	0718	#30 SV	01/04/16	214904		-	-	-	Pass	36	40	11
L1600773-03	SV-3	1880	6.0L Can	01/04/16	214904	L1533195-02	Pass	-29.9	-4.5	-	-	-	-
L1600773-04	SV-4	0701	#90 SV	01/04/16	214904		-	-	-	Pass	40	58	37
L1600773-04	SV-4	984	6.0L Can	01/04/16	214904	L1533195-02	Pass	-30.0	-1.0	-	-	-	-
L1600773-05	SV-5	0259	#90 SV	01/04/16	214904		-	-	-	Pass	40	55	32
L1600773-05	SV-5	1666	6.0L Can	01/04/16	214904	L1533195-02	Pass	-30.0	-2.3	-	-	-	-
L1600773-06	SV-6	0173	#30 AMB	01/04/16	214904		-	-	-	Pass	39	18.8	70
L1600773-06	SV-6	1881	6.0L Can	01/04/16	214904	L1533906-01	Pass	-30.0	0.0	-	-	-	-
L1600773-07	SV-7	0438	#90 SV	01/04/16	214904		-	-	-	Pass	40	45	12
L1600773-07	SV-7	972	6.0L Can	01/04/16	214904	L1533195-02	Pass	-30.0	-3.4	-	-	-	-
L1600773-08	SV-8	0927	#2 SV	01/04/16	214904		-	-	-	Pass	37	40	8



Project Name: 94-02 148TH ST&147-20 94TH AVE

Lab Number: L1600773

Project Number: 12292

Report Date: 01/18/16

Canister and Flow Controller Information

Sample Number	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
L1600773-08	SV-8	900	6.0L Can	01/04/16	214904	L1533195-02	Pass	-30.0	-4.7	-	-	-	-
L1600773-09	UNUSED CAN #1969	1969	6.0L Can	01/04/16	214904	L1533195-02	Pass	-30.0	-29.0	-	-	-	-
L1600773-10	UNUSED CAN #926	926	6.0L Can	01/04/16	214904	L1533053-02	Pass	-30.0	-18.2	-	-	-	-
L1600773-11	UNUSED CAN #2111	2111	6.0L Can	01/04/16	214904	L1533053-02	Pass	-30.0	-12.7	-	-	-	-
L1600773-12	UNUSED CAN #1890	1890	6.0L Can	01/04/16	214904	L1533906-02	Pass	-30.0	-26.6	-	-	-	-



**Appendix C
Data Summary
Form I's
With Qualifications**

Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-01	Date Collected : 01/11/16 10:30
Client ID : SV-1	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 21:32
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144969	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	8.28	0.200	--	40.9	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	8.39	0.200	--	47.1	1.12	--	
67-63-0	iso-Propyl Alcohol	0.506	0.500	--	1.24	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	4.74	0.500	--	16.5	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.501	0.500	--	1.48	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	7.91	0.200	--	38.6	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1600773-01
Client ID : SV-1
Sample Location : QUEENS, NY
Sample Matrix : SOIL_VAPOR
Analytical Method : 48,TO-15
Lab File ID : R144969
Sample Amount : 250 ml

Lab Number : L1600773
Project Number : 12292
Date Collected : 01/11/16 10:30
Date Received : 01/11/16
Date Analyzed : 01/14/16 21:32
Dilution Factor : 1
Analyst : RY
Instrument ID : AIRPIANO1
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.493	0.200	--	2.69	1.09	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.29	0.200	--	4.86	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	9.34	0.200	--	63.3	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.261	0.200	--	1.13	0.869	--	
179601-23-1	p/m-Xylene	1.08	0.400	--	4.69	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.374	0.200	--	1.62	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-01	Date Collected : 01/11/16 10:30
Client ID : SV-1	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 21:32
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144969	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-02D	Date Collected : 01/11/16 11:27
Client ID : SV-2	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 22:03
Sample Matrix : SOIL_VAPOR	Dilution Factor : 144.5
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144970	Instrument ID : AIRPIANO1
Sample Amount : 1.73 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	7090	28.9	--	35100	143	--	
74-87-3	Chloromethane	ND	28.9	--	ND	59.7	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	28.9	--	ND	202.	--	U
75-01-4	Vinyl chloride	ND	28.9	--	ND	73.9	--	U
106-99-0	1,3-Butadiene	ND	28.9	--	ND	63.9	--	U
74-83-9	Bromomethane	ND	28.9	--	ND	112.	--	U
75-00-3	Chloroethane	ND	28.9	--	ND	76.3	--	U
64-17-5	Ethyl Alcohol	ND	722	--	ND	1360	--	U
593-60-2	Vinyl bromide	ND	28.9	--	ND	126.	--	U
67-64-1	Acetone	ND	144	--	ND	342	--	U
75-69-4	Trichlorofluoromethane	67.8	28.9	--	381	162	--	
67-63-0	Iso-Propyl Alcohol	ND	72.2	--	ND	177.	--	U
75-35-4	1,1-Dichloroethene	ND	28.9	--	ND	115.	--	U
75-65-0	tert-Butyl Alcohol	ND	72.2	--	ND	219.	--	U
75-09-2	Methylene chloride	ND	72.2	--	ND	251	--	U
107-05-1	3-Chloropropene	ND	28.9	--	ND	90.5	--	U
75-15-0	Carbon disulfide	ND	28.9	--	ND	90.0	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	28.9	--	ND	222.	--	U
156-60-5	trans-1,2-Dichloroethene	ND	28.9	--	ND	115.	--	U
75-34-3	1,1-Dichloroethane	ND	28.9	--	ND	117.	--	U
1634-04-4	Methyl tert butyl ether	ND	28.9	--	ND	104.	--	U
78-93-3	2-Butanone	ND	72.2	--	ND	213.	--	U
156-59-2	cis-1,2-Dichloroethene	ND	28.9	--	ND	115.	--	U
141-78-6	Ethyl Acetate	ND	72.2	--	ND	260.	--	U
67-66-3	Chloroform	ND	28.9	--	ND	141.	--	U
109-99-9	Tetrahydrofuran	ND	72.2	--	ND	213.	--	U
107-06-2	1,2-Dichloroethane	ND	28.9	--	ND	117.	--	U
110-54-3	n-Hexane	ND	28.9	--	ND	102.	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-02D	Date Collected : 01/11/16 11:27
Client ID : SV-2	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 22:03
Sample Matrix : SOIL_VAPOR	Dilution Factor : 144.5
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144970	Instrument ID : AIRPIANO1
Sample Amount : 1.73 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	28.9	--	ND	158.	--	U
71-43-2	Benzene	ND	28.9	--	ND	92.3	--	U
56-23-5	Carbon tetrachloride	ND	28.9	--	ND	182.	--	U
110-82-7	Cyclohexane	ND	28.9	--	ND	99.5	--	U
78-87-5	1,2-Dichloropropane	ND	28.9	--	ND	134.	--	U
75-27-4	Bromodichloromethane	ND	28.9	--	ND	194.	--	U
123-91-1	1,4-Dioxane	ND	28.9	--	ND	104.	--	U
79-01-6	Trichloroethene	ND	28.9	--	ND	155.	--	U
540-84-1	2,2,4-Trimethylpentane	ND	28.9	--	ND	135.	--	U
142-82-5	Heptane	ND	28.9	--	ND	118.	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	28.9	--	ND	131.	--	U
108-10-1	4-Methyl-2-pentanone	ND	72.2	--	ND	296.	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	28.9	--	ND	131.	--	U
79-00-5	1,1,2-Trichloroethane	ND	28.9	--	ND	158.	--	U
108-88-3	Toluene	ND	28.9	--	ND	109.	--	U
591-78-6	2-Hexanone	ND	28.9	--	ND	118.	--	U
124-48-1	DiBromochloromethane	ND	28.9	--	ND	246.	--	U
106-93-4	1,2-Dibromoethane	ND	28.9	--	ND	222.	--	U
127-18-4	Tetrachloroethene	ND	28.9	--	ND	196.	--	U
108-90-7	Chlorobenzene	ND	28.9	--	ND	133.	--	U
100-41-4	Ethylbenzene	ND	28.9	--	ND	126.	--	U
179601-23-1	p/m-Xylene	ND	57.8	--	ND	251.	--	U
75-25-2	Bromoform	ND	28.9	--	ND	299.	--	U
100-42-5	Styrene	99.8	28.9	--	425	123	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	28.9	--	ND	198.	--	U
95-47-6	o-Xylene	ND	28.9	--	ND	126.	--	U
622-96-8	4-Ethyltoluene	ND	28.9	--	ND	142.	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	28.9	--	ND	142.	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-02D	Date Collected : 01/11/16 11:27
Client ID : SV-2	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 22:03
Sample Matrix : SOIL_VAPOR	Dilution Factor : 144.5
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144970	Instrument ID : AIRPIANO1
Sample Amount : 1.73 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	28.9	--	ND	142.	--	U
100-44-7	Benzyl chloride	ND	28.9	--	ND	150.	--	U
541-73-1	1,3-Dichlorobenzene	ND	28.9	--	ND	174.	--	U
106-46-7	1,4-Dichlorobenzene	ND	28.9	--	ND	174.	--	U
95-50-1	1,2-Dichlorobenzene	ND	28.9	--	ND	174.	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	28.9	--	ND	215.	--	U
87-68-3	Hexachlorobutadiene	ND	28.9	--	ND	308.	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-03D	Date Collected : 01/11/16 11:00
Client ID : SV-3	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 22:35
Sample Matrix : SOIL_VAPOR	Dilution Factor : 3.333
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144971	Instrument ID : AIRPIANO1
Sample Amount : 75.0 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbv			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	205	0.667	--	1010	3.30	--	
74-87-3	Chloromethane	ND	0.667	--	ND	1.38	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.667	--	ND	4.66	--	U
75-01-4	Vinyl chloride	ND	0.667	--	ND	1.71	--	U
106-99-0	1,3-Butadiene	ND	0.667	--	ND	1.48	--	U
74-83-9	Bromomethane	ND	0.667	--	ND	2.59	--	U
75-00-3	Chloroethane	ND	0.667	--	ND	1.76	--	U
64-17-5	Ethyl Alcohol	ND	16.7	--	ND	31.5	--	U
593-60-2	Vinyl bromide	ND	0.667	--	ND	2.92	--	U
67-64-1	Acetone	ND	3.33	--	ND	7.91	--	U
75-69-4	Trichlorofluoromethane	19.9	0.667	--	112	3.75	--	
67-63-0	iso-Propyl Alcohol	ND	1.67	--	ND	4.10	--	U
75-35-4	1,1-Dichloroethene	ND	0.667	--	ND	2.64	--	U
75-65-0	tert-Butyl Alcohol	ND	1.67	--	ND	5.06	--	U
75-09-2	Methylene chloride	2.51	1.67	--	8.72	5.80	--	
107-05-1	3-Chloropropene	ND	0.667	--	ND	2.09	--	U
75-15-0	Carbon disulfide	ND	0.667	--	ND	2.08	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.667	--	ND	5.11	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--	U
75-34-3	1,1-Dichloroethane	ND	0.667	--	ND	2.70	--	U
1634-04-4	Methyl tert butyl ether	ND	0.667	--	ND	2.40	--	U
78-93-3	2-Butanone	ND	1.67	--	ND	4.93	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.667	--	ND	2.64	--	U
141-78-6	Ethyl Acetate	ND	1.67	--	ND	6.02	--	U
67-66-3	Chloroform	1.70	0.667	--	8.30	3.26	--	
109-99-9	Tetrahydrofuran	ND	1.67	--	ND	4.93	--	U
107-06-2	1,2-Dichloroethane	ND	0.667	--	ND	2.70	--	U
110-54-3	n-Hexane	ND	0.667	--	ND	2.35	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-03D	Date Collected : 01/11/16 11:00
Client ID : SV-3	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 22:35
Sample Matrix : SOIL_VAPOR	Dilution Factor : 3.333
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144971	Instrument ID : AIRPIANO1
Sample Amount : 75.0 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	0.667	--	ND	3.64	--	U
71-43-2	Benzene	ND	0.667	--	ND	2.13	--	U
56-23-5	Carbon tetrachloride	ND	0.667	--	ND	4.20	--	U
110-82-7	Cyclohexane	ND	0.667	--	ND	2.30	--	U
78-87-5	1,2-Dichloropropane	ND	0.667	--	ND	3.08	--	U
75-27-4	Bromodichloromethane	ND	0.667	--	ND	4.47	--	U
123-91-1	1,4-Dioxane	ND	0.667	--	ND	2.40	--	U
79-01-6	Trichloroethene	ND	0.667	--	ND	3.58	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.667	--	ND	3.12	--	U
142-82-5	Heptane	ND	0.667	--	ND	2.73	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.67	--	ND	6.84	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.667	--	ND	3.03	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.667	--	ND	3.64	--	U
108-88-3	Toluene	1.05	0.667	--	3.96	2.51	--	
591-78-6	2-Hexanone	ND	0.667	--	ND	2.73	--	U
124-48-1	Dibromochloromethane	ND	0.667	--	ND	5.68	--	U
106-93-4	1,2-Dibromoethane	ND	0.667	--	ND	5.13	--	U
127-18-4	Tetrachloroethene	ND	0.667	--	ND	4.52	--	U
108-90-7	Chlorobenzene	ND	0.667	--	ND	3.07	--	U
100-41-4	Ethylbenzene	ND	0.667	--	ND	2.90	--	U
179601-23-1	p/m-Xylene	ND	1.33	--	ND	5.78	--	U
75-25-2	Bromoform	ND	0.667	--	ND	6.90	--	U
100-42-5	Styrene	ND	0.667	--	ND	2.84	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.667	--	ND	4.58	--	U
95-47-6	o-Xylene	ND	0.667	--	ND	2.90	--	U
622-96-8	4-Ethyltoluene	ND	0.667	--	ND	3.28	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.667	--	ND	3.28	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-03D	Date Collected : 01/11/16 11:00
Client ID : SV-3	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 22:35
Sample Matrix : SOIL_VAPOR	Dilution Factor : 3.333
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144971	Instrument ID : AIRPIANO1
Sample Amount : 75.0 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.667	--	ND	3.28	--	U
100-44-7	Benzyl chloride	ND	0.667	--	ND	3.45	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.667	--	ND	4.01	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.667	--	ND	4.95	--	U
87-68-3	Hexachlorobutadiene	ND	0.667	--	ND	7.11	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-04	Date Collected : 01/11/16 10:58
Client ID : SV-4	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 23:07
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144972	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	18.5	0.200	--	91.5	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.97	1.00	--	7.06	2.38	--	
75-69-4	Trichlorofluoromethane	5.14	0.200	--	28.9	1.12	--	
67-63-0	iso-Propyl Alcohol	0.732	0.500	--	1.80	1.23	--	
75-35-4	1,1-Dichloroethane	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-Butyl Alcohol	0.700	0.500	--	2.12	1.52	--	
75-09-2	Methylene chloride	0.844	0.500	--	2.93	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.864	0.500	--	2.55	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	19.3	0.200	--	94.3	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-04	Date Collected : 01/11/16 10:58
Client ID : SV-4	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 23:07
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144972	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.914	0.200	--	4.99	1.09	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	1.18	0.200	--	6.34	1.07	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.68	0.200	--	6.33	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	37.9	0.200	--	257	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.463	0.200	--	2.01	0.869	--	
179601-23-1	p/m-Xylene	2.01	0.400	--	8.73	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.787	0.200	--	3.42	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-04	Date Collected : 01/11/16 10:58
Client ID : SV-4	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 23:07
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144972	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-05D	Date Collected : 01/11/16 10:44
Client ID : SV-5	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 23:38
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1.25
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144973	Instrument ID : AIRPIANO1
Sample Amount : 200 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	53.5	0.250	--	265	1.24	--	
74-87-3	Chloromethane	ND	0.250	--	ND	0.516	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.250	--	ND	1.75	--	U
75-01-4	Vinyl chloride	ND	0.250	--	ND	0.639	--	U
106-99-0	1,3-Butadiene	ND	0.250	--	ND	0.553	--	U
74-83-9	Bromomethane	ND	0.250	--	ND	0.971	--	U
75-00-3	Chloroethane	ND	0.250	--	ND	0.660	--	U
64-17-5	Ethyl Alcohol	9.75	6.25	--	18.4	11.8	--	
593-60-2	Vinyl bromide	ND	0.250	--	ND	1.09	--	U
67-64-1	Acetone	12.8	1.25	--	30.4	2.97	--	
75-69-4	Trichlorofluoromethane	16.3	0.250	--	91.6	1.40	--	
67-63-0	iso-Propyl Alcohol	5.30	0.625	--	13.0	1.54	--	
75-35-4	1,1-Dichloroethene	ND	0.250	--	ND	0.991	--	U
75-65-0	tert-Butyl Alcohol	ND	0.625	--	ND	1.89	--	U
75-09-2	Methylene chloride	ND	0.625	--	ND	2.17	--	U
107-05-1	3-Chloropropene	ND	0.250	--	ND	0.783	--	U
75-15-0	Carbon disulfide	0.938	0.250	--	2.92	0.779	--	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.250	--	ND	1.92	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.250	--	ND	0.991	--	U
75-34-3	1,1-Dichloroethane	ND	0.250	--	ND	1.01	--	U
1634-04-4	Methyl tert butyl ether	ND	0.250	--	ND	0.901	--	U
78-93-3	2-Butanone	28.4	0.625	--	83.8	1.84	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.250	--	ND	0.991	--	U
141-78-6	Ethyl Acetate	2.11	0.625	--	7.60	2.25	--	
67-66-3	Chloroform	63.7	0.250	--	311	1.22	--	
109-99-9	Tetrahydrofuran	ND	0.625	--	ND	1.84	--	U
107-06-2	1,2-Dichloroethane	ND	0.250	--	ND	1.01	--	U
110-54-3	n-Hexane	0.485	0.250	--	1.71	0.881	--	



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-05D	Date Collected : 01/11/16 10:44
Client ID : SV-5	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 23:38
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1.25
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144973	Instrument ID : AIRPIANO1
Sample Amount : 200 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	1.82	0.250	--	9.93	1.36	--	
71-43-2	Benzene	0.648	0.250	--	2.07	0.799	--	
56-23-5	Carbon tetrachloride	ND	0.250	--	ND	1.57	--	U
110-82-7	Cyclohexane	ND	0.250	--	ND	0.861	--	U
78-87-5	1,2-Dichloropropane	ND	0.250	--	ND	1.16	--	U
75-27-4	Bromodichloromethane	ND	0.250	--	ND	1.67	--	U
123-91-1	1,4-Dioxane	ND	0.250	--	ND	0.901	--	U
79-01-6	Trichloroethene	0.422	0.250	--	2.27	1.34	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.250	--	ND	1.17	--	U
142-82-5	Heptane	0.602	0.250	--	2.47	1.02	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--	U
108-10-1	4-Methyl-2-pentanone	0.938	0.625	--	3.84	2.56	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.250	--	ND	1.13	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.250	--	ND	1.36	--	U
108-88-3	Toluene	7.72	0.250	--	29.1	0.942	--	
591-78-6	2-Hexanone	2.22	0.250	--	9.10	1.02	--	
124-48-1	Dibromochloromethane	ND	0.250	--	ND	2.13	--	U
106-93-4	1,2-Dibromoethane	ND	0.250	--	ND	1.92	--	U
127-18-4	Tetrachloroethene	7.49	0.250	--	50.8	1.70	--	
108-90-7	Chlorobenzene	ND	0.250	--	ND	1.15	--	U
100-41-4	Ethylbenzene	0.782	0.250	--	3.40	1.09	--	
179601-23-1	p/m-Xylene	2.02	0.500	--	8.77	2.17	--	
75-25-2	Bromoform	ND	0.250	--	ND	2.58	--	U
100-42-5	Styrene	ND	0.250	--	ND	1.06	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.250	--	ND	1.72	--	U
95-47-6	o-Xylene	0.602	0.250	--	2.61	1.09	--	
622-96-8	4-Ethyltoluene	ND	0.250	--	ND	1.23	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.250	--	ND	1.23	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-05D	Date Collected : 01/11/16 10:44
Client ID : SV-5	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/14/16 23:38
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1.25
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144973	Instrument ID : AIRPIANO1
Sample Amount : 200 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.250	--	ND	1.23	--	U
100-44-7	Benzyl chloride	ND	0.250	--	ND	1.29	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.250	--	ND	1.50	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.250	--	ND	1.50	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.250	--	ND	1.50	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.250	--	ND	1.86	--	U
87-68-3	Hexachlorobutadiene	ND	0.250	--	ND	2.67	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-07	Date Collected : 01/11/16 10:14
Client ID : SV-7	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 00:42
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144975	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	7.94	0.200	--	39.3	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	3.80	0.200	--	21.4	1.12	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.697	0.500	--	2.06	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.473	0.200	--	2.31	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-07	Date Collected : 01/11/16 10:14
Client ID : SV-7	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 00:42
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144975	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	0.658	0.200	--	3.59	1.09	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.920	0.200	--	3.47	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	1.25	0.200	--	8.48	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.908	0.400	--	3.94	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.312	0.200	--	1.36	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-07	Date Collected : 01/11/16 10:14
Client ID : SV-7	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 00:42
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144975	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-08	Date Collected : 01/11/16 11:11
Client ID : SV-8	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 01:14
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144976	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	15.5	0.200	--	76.6	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	1.39	0.200	--	7.81	1.12	--	
67-63-0	iso-Propyl Alcohol	1.02	0.500	--	2.51	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.993	0.500	--	2.93	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	1.62	0.200	--	7.91	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-08	Date Collected : 01/11/16 11:11
Client ID : SV-8	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 01:14
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144976	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.23	0.200	--	4.64	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	1.55	0.200	--	10.5	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.802	0.400	--	3.48	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.254	0.200	--	1.10	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U



Form 1

Volatile Organics

Client : AKRF, Inc.	Lab Number : L1600773
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1600773-08	Date Collected : 01/11/16 11:11
Client ID : SV-8	Date Received : 01/11/16
Sample Location : QUEENS, NY	Date Analyzed : 01/15/16 01:14
Sample Matrix : SOIL_VAPOR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : RY
Lab File ID : R144976	Instrument ID : AIRPIANO1
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



**DATA USABILITY SUMMARY REPORT – DUSR
DATA VALIDATION SUMMARY**

ORGANIC/INORGANIC ANALYSES

**VOLATILES BY GC/MS
SEMIVOLATILES BY GC/MS
PESTICIDES BY GC
PCBs BY GC
TAL METALS (TOTAL AND DISSOLVED) BY ICP-MS/CV**

**For Groundwater Samples Collected
January 19, 2016
From 94-02 148th Street and 147-20 94th Avenue
Queens, New York
Collected by AKRF, Inc.
Project # 12292**

**SAMPLE DELIVERY GROUP NUMBER:
L1601674
BY ALPHA ANALYTICAL - (ELAP #11148)**

SUBMITTED TO:

**Mr. Steve Grens
AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, NY 10016**

February 11, 2016

PREPARED BY:

**Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731**

Lori A. Beyer

94-02 148th Street and 147-20 94th Avenue, Queens, New York – Data Usability Summary Report
(Data Validation): January 2016 Sampling Events; Groundwater Analysis for Volatiles, Semivolatiles,
Pesticides, PCBs and TAL Metals (Total and Dissolved).

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- Sample Receipt

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APPENDICES:

- A. Chain of Custody Document
- B. Case Narrative
- C. Data Summary Form Is with Qualifications

Introduction:

A validation was performed on groundwater samples and the associated quality control samples (Field Blank/Trip Blank/MS/MSD and Field Duplicate) for organic/inorganic analysis for samples collected under chain of custody documentation by AKRF, Inc. and submitted to Alpha Analytical for subsequent analysis. This report contains the laboratory and validation results for the field samples itemized below. Analysis was performed in accordance with requested tests per the chain of custody documents.

The samples were analyzed by Alpha, utilizing SW846 Methods and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodologies employed. The analytical testing for soil samples consisted of Volatile Organics, Semivolatile Organics, Pesticides, PCBs and Metals.

Laboratory narrative discussion was not provided by the laboratory for the organic testing that was conducted. Any QC outliers impacting sample results are discussed throughout this report. The laboratory was not requested to provide the case narrative.

The data was evaluated in accordance with EPA Region II National Functional Guidelines for Organic and Inorganic Data Review and EPA Region II SOPs for 8260, 8270, 8081, 8082 and Metals and also in conjunction with the analytical methodologies for which the samples were analyzed, where applicable and relevant.

Sample ID	Lab ID	Matrix	Date Collected	Analysis
MW-1	L1601674-01	Groundwater	1/19/16	VOA/SVOA/Pesticides/PCB/ TAL Total and Dissolved Metals
MW-2	L1601674-02	Groundwater	1/19/16	VOA/SVOA/Pesticides/PCB/ TAL Total and Dissolved Metals
MW-2A (Field Duplicate of MW-2)	L1601674-03	Groundwater	1/19/16	VOA/SVOA/Pesticides/PCB/ TAL Total and Dissolved Metals
MW-3	L1601674-04	Groundwater	1/19/16	VOA/SVOA/Pesticides/PCB/ TAL Total and Dissolved Metals
MW-4	L1601673-05	Groundwater	1/19/16	VOA/SVOA/Pesticides/PCB/ TAL Total and Dissolved Metals
Field Blank - 3	L1601674-06	Aqueous	1/19/16	VOA/SVOA/Pesticides/PCB/ TAL Total Metals
Trip Blank - 4	L1601674-07	Aqueous	1/19/16	VOA

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

- U** - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** - The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
- R** - The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
- N** - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”
- NJ** - The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate quantity.
- J+** - The result is an estimated quantity, but the result may be biased high.
- J-** - The result is an estimated quantity, but the result may be biased low.
- D** - Analyte concentration is from diluted analysis.

Sample Receipt:

The Chain of Custody documents indicates that the samples were received at Alpha Analytical via laboratory courier the day following completion of the sampling. Sample login notes were generated. The cooler temperature for all sample receipts were recorded upon receipt at Alpha and determined to be acceptable (<6.0 degrees C) for all shipments. The actual temperature is recorded on the sample receipt checklist provided in Appendix A of this report.

No unresolved problems and/or discrepancies were noted, consequently, the integrity of the samples has been assumed to be good. One (1) of the Volatile vials for MW-2A was broken upon receipt. Sufficient containers were received for analysis and therefore sample results have not been compromised.

The data summary Form I's included in Appendix C includes all usable (qualified) and unusable (rejected) results for the samples identified above. The Form I's summarize the detailed narrative section of the report.

NOTE:

L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by GC/MS SW846 Method 8260C

The following method criteria were reviewed: holding times, SMCs, MS, MSD, LCS, Laboratory Spiked Blanks, Method Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and Overall System Performance. The Volatile results were considered to be valid and useable with the exception of non-detects in for Acetone, 2-Butanone and 1,4-Dioxane due to low ICAL/CCAL low response factors in all samples as noted within the following text:

1.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples pertaining to this SDG were performed within the Method required holding times as well as the technical holding times for data validation of 14 days from collection to analysis. No data validation qualifiers were required based upon holding time.

1.2 System Monitoring Compound (Surrogate) Recovery

All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specification, qualifications are required to be applied to associated samples and analytes.

Surrogate recoveries (%R) for Dibromofluoromethane, 1,2-Dichloroethane-d4, Toluene-d8 and 4-Bromofluorobenzene were found to be within acceptable limits for surrogate compounds for all analyses pertaining to this SDG.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices and to demonstrate acceptable compound recovery by the laboratory at the time of sample analysis. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

MS/MSD analyses were conducted for each analytical sequence as batch QC and were spiked with all components as required by the analytical procedure.

MW-3 was selected by AKRF field personnel for MS/MSD analysis. Bromomethane recovered low (17%/23%) in the MS/MSD and as a result, the RPD fell outside range (30%). Non-detects in the parent sample has been qualified, "UJ."

The National Functional Guidelines and EPA Region 2 SOPs state that "No qualifications to the data is necessary based on MS data alone."

1.4 Laboratory Control Sample/Blank Spikes

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes or LCS/LCS Duplicates were analyzed for each sequence. Recovery values were acceptable for all spiked analytes with exceptions noted below:

LCS – Bromomethane – 150%
LCS Duplicate – Bromomethane – 144%

RPD for 1,4-Dioxane – 43%.

No qualifications to Bromomethane was required in MW-1, MW-2, MW-2A, MW-4, Field Blank – 3 and Trip Blank - 4 since high recovery values do not support any potential loss of detection.

Based on professional judgment, no qualifications to the data were made based on the 1,4-Dioxane RPD outlier.

1.5 Blank Contamination

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>/= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	</= CRQL*	Report CRQL value with a U
		>/=CRQL* and </= blank concentration	Report blank value for sample concentration with a U
		>/= CRQL* and > blank concentration	No qualification required
	=CRQL*	</= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
Gross Contamination**	Detects	Report blank value for sample concentration with a U	

*2x the CRQL for methylene chloride, 2-butanone and acetone.

**4x the CRQL for methylene chloride, 2-butanone, and acetone

***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed 100 ug/L.

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) **Method Blank Contamination:**

Target analytes were not detected in the method blank associated with sample analysis.

B) **Field Blank Contamination:**

Acetone was detected in Field Blank – 3 at 4 ug/L. The laboratory reported results for this compound were evaluated based on the above criteria and negated in MW-2A, MW-3 and MW-4.

C) **Trip Blank Contamination:**

Acetone was detected in Trip Blank – 4 at 3.7 ug/L. No additional qualifications to the data were made since Acetone was negated previously.

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency for Bromofluorobenzene (BFB) for all analyses conducted for this SDG.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence.

The continuing calibration checks document that the instrument is giving satisfactory daily performance. Initial calibration verifications were acceptable.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R". Method 8260C allows for a minimum response factor of 0.1 for Acetone, 2-Butanone, 2-Hexanone and 4-Methyl-2-Pentanone.

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05) and minimum response criteria in Table 4 of Method 8260C, for the initial and continuing calibrations for all reported analytes with the exception of ICAL responses for Acetone, Acrylonitrile, 2-Butanone, 1,4-Dioxane, Bromomethane and 4-Methyl-2-Pentanone. Non-detects for Acetone, 2-Butanone and 1,4-Dioxane have been rejected, "R in all field samples. Non-detects for the remaining analytes have been qualified, "UJ." Acetone detections in the Field and Trip Blank have been qualified, "J."

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are

flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >20% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists. Closing CCV must meet 30% criteria. Acceptable calibration verification was observed.

*Method 8260C allows for a number of analytes to be outside requirements due to the large number of compounds.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds with the following exceptions:

CCAL 1/25/16 – Dichlorodifluoromethane – 21%, Bromomethane – 50%, Tetrachloroethene – 21%, 1,2,3-Trichlorobenzene – 31%. Results have been qualified, "J/UJ" in all samples.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All samples were spiked with the internal standards Fluorobenzene, Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 prior to sample analysis. The area responses and retention time of each internal standard met QC criteria in all samples associated with this SDG.

1.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Generally, for water samples an acceptable RPD is 25%. Acceptable precision was observed in the Field Duplicate and parent sample (MW-2 and MW-2A) for detected analyte Tetrachloroethene (0.27 ug/L vs. 0.26 ug/L).

1.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. All retention times were within required specifications.

1.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards per SW846 and response factors were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP).

Groundwater samples were all analyzed undiluted at 10mls.

1.12 Overall System Performance

Good resolution and chromatographic performance were observed.

Tentatively Identified Compounds (TICs) were not required.

2.0 Semivolatile Organics by GC/MS SW846 Method 8270D and SIM Techniques

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Tunes, Calibrations, Internal Standards, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Semivolatile results were considered to be valid and usable as noted within the following text:

2.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

All samples were extracted and analyzed within the method required holding times and the technical holding times (7 days from collection to extraction and 40 days from extraction to analysis for liquid samples) required for data validation.

2.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Samples were spiked with six (6) surrogate standards at the sample extraction portion of analysis. Acceptable recoveries were observed. Method allows for one (1) base neutral and one (1) acid recovery to be outside acceptance limits without requiring reextraction/reanalysis. The laboratory is compliant with testing.

2.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Semivolatile BNA Analysis:

MW-3 was selected by AKRF field personnel for MS/MSD. Acceptable recovery and RPD was observed for all spiked analytes.

The National Functional Guidelines provide and allow for flexibility when qualifying the parent sample based on MS/MSD data.

2.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch. Recovery values for all spiked constituents met QC requirements.

2.5 Method Blanks

Quality assurance (QA) blanks; i.e. method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Phthalates (common laboratory contaminants)	Sample Conc. is >CRQL, but <=5x blank value	Sample Conc. Is <CRQL and <=5x blank value	Sample Conc. is >CRQL and >5x blank value
Other Contaminants	Sample Conc. is >CRQL, but <=1x blank value	Sample Conc. Is <CRQL and <=1x blank value	Sample Conc. is >CRQL and >1x blank value

Below is a summary of the compounds in the sample and the associated qualification that have been applied:

A) Method Blank Contamination:

Target analytes were not detected in the method blanks associated with sample analysis.

B) Field Blank Contamination:

Target analytes were not detected in the field blank associated with sample analysis.

2.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for semivolatiles organics is decafluorotriphenylphosphine (DFTPP).

Instrument performance was generated within acceptable limits and frequency (12 hours) for decafluorotriphenylphosphine (DFTPP) for all analyses.

2.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be ≥ 0.05 in both initial and continuing calibrations. A value < 0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound in the corresponding samples will be rejected, "R".

All the response factors for the target analytes reported were found to be within acceptable limits (≥ 0.05), for the initial (average RRF) and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $< 20\%$ and %D must be $< 20\%$. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ". If %RSD and %D grossly exceed QC criteria, non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is $> 30\%$ and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 20% then positive results are qualified, "J". In cases where removal of either the low or high point restores the linearity, then only low or high level results will be qualified, "J" in the portion of the curve where non linearity exists. Due to the large number of analytes in this method, it is expected for some analytes to fall outside acceptance criteria and the calibration is still considered valid.

Acceptable Initial Calibration Verifications were performed.

Initial Calibrations: The initial calibrations provided and the %RSD were within acceptable limits (20%) for all reported compounds.

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (20%) for all reported compounds.

2.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-50% to +100%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/- 30 seconds from the associated continuing calibration standard. If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity.

If an internal standard retention time varies by more than 30 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

All area responses and retention times fell within established QC ranges for sample analysis.

2.9 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Generally for soil samples an acceptable RPD is 25%.

Field duplicate analysis was collected on MW-3 as MW-3A. No target analytes were detected in either analysis.

2.10 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

Mass spectra meet criteria for all detected analytes.

Tentatively Identified Compounds (TICs) were not required.

2.11 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis is considered to be acceptable. Correct internal standards, response factors and percent moisture were used to calculate final concentrations.

As required, the laboratory reported "J" values between the reporting limits (RL) and Method Detection Limits (MDLs). This is consistent with common laboratory practices and a requirement of the National Environmental Laboratory Approval Program (NELAP). Samples were analyzed undiluted. Samples were extracted by Method 3510C (Sep Funnel Extraction).

Sample were also scanned via Selective Ion Monitoring (SIM) techniques in order to achieve lower detection levels for select analytes. No target compounds were detected in any of the samples for 8270D and 8270D SIM.

2.12 Overall System Performance

Acceptable system performance was maintained throughout the analysis. All sample analysis was conducted without dilutions.

3.0 Pesticides by GC SW846 Method 8081B, PCBs by SW846 Method 8082A

The following method criteria were reviewed: holding times, Surrogates, MS, MSD, LCS, Blanks, Analytical Sequences, Calibrations, Target Component Identification, Quantitation, Reported Quantitation Limits and overall system performance. The Pesticide and PCB results are considered to be valid and usable as noted within the following text:

3.1 Holding Time

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were extracted and analyzed within the method required holding times and the technical holding times required for data validation (7 days for aqueous samples) for extraction. All extracts were analyzed within forty (40) days in accordance with the analytical method requirements.

3.2 Surrogate Recovery

All samples are spiked with surrogate compounds prior to sample preparation/extraction to evaluate overall laboratory performance and efficiency of the analytical technique. Additionally, the sample itself may produce effects due to such factors as interferences and high concentrations of analytes. Since the effects of the sample matrix are frequently outside the control of the laboratory and may present relatively unique problems, the evaluation of the data is dependent upon reextraction and/or reanalysis to confirm/negate laboratory error or matrix related problems. No qualifications were applied if one of the spiked surrogates is above acceptance limits on one of the two columns. Discussion of surrogate recoveries that fell outside (above/below) QC guidelines is itemized below:

Pesticides:

Acceptable surrogate recovery values for TCMX and DCB were observed.

PCBs:

Acceptable surrogate recovery values for TCMX and DCB were observed for all analyses.

3.3 Matrix Spikes (MS)/Matrix Spike Duplicates (MSD)

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

The National Functional Guidelines indicate that MS/MSD data alone shall not be utilized to qualify sample data. MS/MSD was submitted with each batch. Data was not qualified for non-site specific QC based on professional judgment.

Pesticides/PCBs:

MW-3 was selected for Pesticide and PCB MS/MSD. Acceptable recovery and RPD were obtained for all spiked analytes.

3.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

LCS/Blank Spikes were analyzed for each analytical extraction batch for Pesticides and PCBs. Recovery values were acceptable.

Pesticide LCS duplicate resulted in lower recoveries as compared to the LCS and as a result, all RPD fell outside range. It is suspected that this is most likely attributed to imprecision in analyst spiking at the extraction stage of analysis. Based on professional judgment, no qualifications to the data were made based on RPD outliers.

3.5 Blanks

Quality assurance (QA) blanks; i.e. method, instrument, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Instrument blanks measure carryover for cross contamination. Field blanks measure cross-contamination of samples during field operations.

The following table was utilized to qualify target analyte results due to contamination. The largest value from all the associated blanks is required to be utilized:

For:	Flag Sample Result with a "U" when:	Report CRQL & Qualify "U" when:	No Qualification is Needed when:
Any Contaminant	Sample Conc. is >CRQL, but $\leq 5x$ blank value	Sample Conc. Is <CRQL and $\leq 5x$ blank value	Sample Conc. is >CRQL and $> 5x$ blank value

Extraction and Instrument blanks were performed at the appropriate frequency.

Below is a summary of blank contamination:

- A) **Method Blank Contamination:**
No target analytes were detected in the associated method blanks and no data validation qualifiers were required based upon method blank data.

B) Field Blank Contamination:

Target analytes were not detected in the Field Blank associated with sample analysis.

3.6 Calibration Verification

Initial and continuing calibration sequence was performed as required for individual and multi-component Pesticide and PCBs standards. Acceptable DDT and Endrin breakdown percent difference (<20%) was observed. Acceptable retention times were obtained for all analysis and GC resolution is acceptable for both columns.

Linearity criteria for the initial standards have been satisfied for both columns as detailed below:

%RSD \leq 20% for single component compounds except alpha-BHC and delta-BHC

%RSD \leq 30% for Toxaphene peaks

%RSD \leq 30% for surrogates (TCMX and DCB)

%RSD <20% for PCB aroclors

%RSD <20% for Silvex (Herbicide)

Continuing calibration verifications:

For Pesticide analysis acceptable percent difference for any pesticide is 20% and for PCB analysis, the acceptable limit is 15%.

Calibrations met method requirements for Pesticide and PCBs.

3.7 Field Duplicates

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Generally, for liquid samples an acceptable RPD is 25%.

Field Duplicate analysis was collected as follows:

MW-3

Field Duplicate MW-3A

Pesticides and PCBs were not detected in either analysis.

3.8 Target Compound Identification

Qualitative criteria for compound identification have been established to minimize the number of false positives and false negatives. The retention times of all target analytes have been verified in the samples to that of the analyzed reference standards

Sample analysis was conducted via the internal standard method.

Acceptable DDT/Endrin breakdown was observed.

Positive Pesticide and PCB sample results are compared and where %Difference >25% when quantitated on the two columns the qualifications below are applied. Sample chromatograms were reviewed for the presence of interference. The following qualifications were applied where neither column shows interference:

<u>%Difference</u>	<u>Qualifier</u>
0-25%	None
26-70%	“J”
71-100%	“JN”
101-200% (no interference)	“R”
101-200% (interference detected)*	“JN”
>50% (Pesticide value is <CRQL)**	“U”
>201%	“R”

***When the reported %D is 101-200%, but interference is determined on either column, the results shall be qualified, “JN”**

**** When the reported pesticide value is lower than the CRQL, and the %D is >50%, raise the value to the CRQL and qualify “U”, undetected.**

As recommended by SW846 Method 8000, the laboratory has reported the lower value obtained when comparison of each column for Pesticides and PCBs.

Acceptable percent difference was obtained for detected analytes (4,4'-DDT) in MW-4.

3.9 Compound Quantification and Reported Detection Limits

TCL compounds are identified on the GC by using the analyte's relative retention time (RRT) and by comparison to the primary column and the secondary confirmation column data. The laboratory reported the lower of the concentrations for primary/confirmatory column results as required.

Samples were analyzed undiluted. Pesticide samples were extracted using a reduced volume of 500mls. The sample extracts were concentrated to 5ml. PCB extracts were concentrated to 1ml. This is acceptable practice.

3.10 Overall System Performance

Acceptable system performance was maintained throughout the analysis of all samples. Good resolution and chromatographic performance were observed.

The laboratory reporting levels reflect the appropriate extraction concentration volume.

4.0 Metals by ICP-MS/Cold Vapor SW846 Methods 6020A/7470A

The following method criteria were reviewed: holding times, CRDL standards, calibration, blanks, MS, laboratory duplicates, LCS, interference check sample, ICP-MS serial dilutions and sample results verification. The total and dissolved groundwater results are considered to be valid and usable with the appropriate qualifiers as notated in the following text:

4.1 Holding Times

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J". The non-detects (sample quantitation limits) are required to be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded.

Samples were digested and analyzed for Total and Dissolved TAL Metals within the method required holding times and the technical holding times for data validation. No qualifications were applied based upon holding time criteria.

4.2 Calibration (ICV/CCV)

Satisfactory instrument calibration is established to ensure that the instruments are capable of producing acceptable quantitative data. An initial calibration demonstrates that the instruments are capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instruments are giving satisfactory sequential performance and that the initial calibration is still valid.

The ICP-MS and Mercury instruments were calibrated utilizing a minimum of a four-point curve in addition to blanks at the beginning of each analytical run. The calibrations have been determined to be acceptable, yielding correlation coefficients of 0.995 or greater.

For ICP-MS analysis, satisfactory instrument performance near the Contract Required Detection Limit (CRDL) was demonstrated by analyzing a CRDL standard at the beginning and end of the analytical run. The instruments were calibrated properly by analyzing the CRDL solution at the correct levels, and analyzed at the required frequency at the beginning and end of each analytical run.

All recoveries were within acceptable limits of 90-110 % for initial calibration pertaining to field samples.

Continuing calibrations were within acceptable limits of 90-110% recovery of the true values for ICP-MS and Mercury (80-120%) for all field samples.

ICP-MS tunes were acceptable yielding mass resolution within 0.1 u. Acceptable internal standard responses were also observed.

No qualifications were applied based upon ICV/CCV analysis.

4.3 Blanks

Quality assurance (QA) blanks, i.e. method, field or preparation blanks are prepared to identify any contamination that may have been introduced into the samples during sample preparation or field activity. Preparation blanks measure laboratory contamination. Field blanks measure cross-contamination of samples during field operations.

All digestion/prep/ICB/CCB were generated within acceptable limits yielding final concentrations less than the CRDL with the exception of

Barium and Manganese in the prep blank. Sample concentrations were significantly greater (>10x) than the blank level and therefore no qualifications were required and the laboratory reported Barium and Manganese concentrations must be attributed to sample matrix constituents and not blank contamination.

The following action is required for low level detections:

Blank Type	Blank Result	Sample Result	Action
ICB/CCB	Detect</= CRQL	Detect</= CRQL	Report CRQL "U"
Prep Blank	Detect</= CRQL	Detect</= CRQL	Report CRQL "U"

Low detections of Antimony, Aluminum, Chromium, Lead, Manganese, Nickel, Silver, Sodium, Thallium, Zinc, Potassium, Arsenic, Barium, Cadmium and Cobalt were detected in the ICB/CCB/Total/Dissolved Prep Blanks.

The laboratory reported concentrations for Dissolved Chromium was negated, "U" in MW-1. Total Lead concentration in MW-2 was also negated, "U." Dissolved Antimony was negated in MW-2, MW-2A, MW-3 and MW-4. Also, Total Antimony in MW-2A and Dissolved Zinc in MW-2A, MW-4 were negated due to contamination. Dissolved Lead was also negated in MW-3.

The Field Blank was determined to contain low concentrations of: Al, Ca, Cr, Fe, Mn, Ni and K. Sample results were evaluated based on the blank levels and in cases where the blank level was determined to be > sample concentration, the laboratory reported values were negated, "U."

The Field Blank was determined to contain barium, Copper and Sodium >CRDL.

No additional qualifications to the data were made based upon blank contamination.

4.4 Spiked Sample Recovery

The spike data are generated to determine the long terms precision and accuracy of the analytical method in various matrices.

Aqueous spike recoveries are qualified based on the criteria below:

<30% - "R" all detects and non-detects

**Between 30%-74% - results \geq MDL "J" and non-detects "UJ"
Between 126-150% - results \geq MDL "J" and
>150% - results \geq MDL "R"**

MW-3 was selected for MS/MSD analysis by AKRF field sampling personnel. Total and Dissolved Sodium recovered low in the MS and MSD since the sample concentration was >4x the spike level. No qualifications are required for this element.

Aluminum, Iron and Manganese recoveries fell outside acceptance limits(high) in the Total MS/MSD. An acceptable post digestion spike was analyzed. Results in the parent sample; MW-3 must be considered estimated, biased high, "J+" for these elements.

No qualifications to the data were made for non-site specific MS/MSD.

4.5 Laboratory/Field Duplicates

The laboratory uses duplicate sample determinations to demonstrate acceptable method precision at the time of analysis. Duplicate analyses are also performed to generate data in order to determine the long-term precision of the analytical method on various matrices.

Laboratory Duplicates:

RPD >20% but <100% - J detected concentrations

RPD \geq 100% - R all detected and non-detected concentrations

Field Duplicates:

RPD \geq 35% but <120% - qualify sample and duplicate results \geq CRQL "J"

RPD \geq 120% - reject sample and duplicate results \geq CRQL "R"

Field Duplicate analysis was submitted on MW-3 as MW-3A. Total Iron, Aluminum and Manganese have been qualified, "J" due to high percent difference.

4.6 Laboratory Control Sample

The laboratory Control Sample (LCS) serves as a monitor of the overall performance of each step during the analysis, including the sample preparation. Aqueous and solid Laboratory Control samples shall be analyzed for each analyte utilizing the same sample preparation, analytical methods and QA/QC procedures as employed for the samples.

The LCS was analyzed and reported for all ICP and Mercury analysis. Associated LCS recoveries were within the acceptable limits for Metals analyses (80-120%).

4.7 Interference Check Sample

The interference check sample (ICS) verifies the laboratory's interelement and background correction factors. The ICS consists of two solutions A and AB. Solution A consists of interference, and solution AB consists of the analytes mixed with interferents.

SW846 Method 6020 requires solution A and solution AB to be analyzed separately. The recoveries for the ICP interference check sample were all within the acceptable limits of 80-120%. No data qualifications were made based upon ICS analysis.

4.8 ICP Serial Dilution

The serial dilution of samples quantitated by ICP determines whether or not significant physical or chemical interferences exist due to sample matrix. An ICP serial dilution analysis must be performed on a sample for each group of samples with a similar matrix type and concentration, or for each Sample Delivery Group (SDG), whichever is more frequent.

Acceptable ICP serial dilutions were performed at a 5-fold dilution as required by the method where the initial concentration is equal or greater than 50x MDL. All serial dilution analyses agree within a 10% difference of the original determination after correction for dilution for all reported elements with exceptions noted below:

4.9 Sample Results Verification

Analyte quantitation was generated in accordance with protocols. The raw data was verified and found within the linear range of each instrument used for quantitation. Raw data supplied corresponds with reported values. Verification of the calculations yielded reported results.

Metals analysis resulted in acceptable results. Samples were analyzed undiluted as noted on the Form I's. Reported dilutions confirm with raw data submissions.

4.10 Overall Assessment of Data

The data generated were of acceptable quality. For the Total and Dissolved Metals analysis results are usable at the concentrations presented in the validated Form I's.

Reviewer's Signature *Sara A. Beys* Date 02/11/2016

**Appendix A
Chain of Custody
Document**

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-896-9220
FAX: 508-896-6193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 36 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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of

Date Rec'd
In Lab 1/20/16

ALPHA Job #
L1601674

Billing Information
 Same as Client Info
PO #

Project Information
Project Name: 94-02 148th Street and 147-20 94th Ave
Project Location: Queens NY
Project # 12252

Client Information
Client: AKRF
Address: 34 South Broadway
Suite 401 White Plains, NY 10601
Phone: 914-922-2371
Fax: 914-949-7559
Email: sgrns@akrf.com

Deliverables
 ASP-A
 ASP-B
 EQUS (1 File)
 EQUS (4 File)
 Other

Regulatory Requirement
 NY TOGS
 AWQ Standards
 NY Restricted Use
 NY Unrestricted Use
 NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
 NJ NY
 Other.

ANALYSIS

These samples have been previously analyzed by Alpha
Other project specific requirements/comments:
Category Believable/EQUIS Reporting

Please specify Metals of TAL:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	VOC - 8260	SVOC - 8270	PEST - 8081	PCB - 8082	TAL Metals	Dissolved TAL Metals	Sample Specific Comments
		Date	Time									
01674-01	MW-1	1/19/16	16:55	Ag	SC	X	X	X	X	X	X	
02	MW-2		13:34			X	X	X	X	X	X	
03	MW-2IA		13:35			X	X	X	X	X	X	
04	MW-3		09:50			X	X	X	X	X	X	
04	MW-3IMS		09:50			X	X	X	X	X	X	
04	MW-3MSD		09:50			X	X	X	X	X	X	
05	MW-4		19:55		H/HAB	X	X	X	X	X	X	
06	Field Blank-3		15:20		SC	X	X	X	X	X	X	
07	Trip Blank-4	1/16/16	N/A	Ag	NA	X	X	X	X	X	X	

Sample Filtration
 Done
 Lab to do
 Preservation
 Lab to do
(Please Specify below)

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Relinquished By:	Date/Time	Received By:	Date/Time
<i>[Signature]</i>	1-20-16 9:10	<i>[Signature]</i>	1-20-16 4:10
<i>[Signature]</i>	1-20-16 18:00	<i>[Signature]</i>	1-20-16 18:00
<i>[Signature]</i>	1-20-16 2:25	<i>[Signature]</i>	1-20-16 2:25
<i>[Signature]</i>	1/20/16 2:30	<i>[Signature]</i>	1/20/16 2:30

Preservative Code:
A = None
P = Plastic
B = HCl
C = HNO₃
D = H₂SO₄
E = NaOH
F = MeOH
G = NaHSO₄
H = Na₂S₂O₃
K/E = Zn Ac/NaOH
O = Other

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type: V A A P P
Preservative: B A A C C

Form No: 01-25 (rev. 30-Sept-2013)



Sample Delivery Group Form

Laboratory Job number: L1601674

Project Manager: Ben Rao

Review Date: 01/21/2016

Project Number: 12292

Project Name: 94-02 148TH ST&147-20 94TH AVE

Received: 01/20/2016 09:10

Client Account: AKRF, Inc.

Received by: JK/GP

Samples Delivered by: COURIER

Call Tracker #

Bill Of Laden N/A

Trackingnum

Coc Present Present

Container Status Broken

Sample IDs -03C Vial was received Broken

All Containers Accounted For? No

-03C was rec broken

Were Extra Samples Received? No

Do Sample Labels and COC agree? Yes

Are Samples in Appropriate Containers? Yes

Are Samples Received within Holding time? Yes

pH of Samples upon Receipt <2, 7

Are samples Properly Preserved? Yes

Initial pH preserved in house with

Final pH

Other Issues

Chlorine Check N/A

Are VOA/VPH Vials Present? Yes

Aqueous: Do Vials Contain Head Space? No

Soils: Is MeOH Covering the Soil? N/A

Reagent H2O Preserved vials Frozen on N/A

Frozen by Client N/A

Cooler	Seal	Ice Present	Blue Ice Present	Temp. (Celsius)	Frozen upon Receipt	Delivered Direct from Site
C	Absent	Yes	No	2.9 - IR Gun	No	No



Sample Delivery Group Form

E	Absent	Yes	No	3.2 - IR Gun	No	No
A	Absent	Yes	No	3.3 - IR Gun	No	No
B	Absent	Yes	No	4.2 - IR Gun	No	No
D	Absent	Yes	No	4.1 - IR Gun	No	No

**Appendix B
Case Narrative**

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1601674
Report Date: 01/27/16

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 all of the requirements of NELAC, for all NELAC accredited parameters. 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. 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. Performance criteria for CAM and RCP methods allow for some LCS compound failures to occur and still be within method compliance. In these instances, the specific failures are not narrated but are noted in the associated QC table. This information is also incorporated in the Data Usability format for our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples free of charge for 30 days from the date the project is completed. After 30 days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples.

Please contact Client Services at 800-624-9220 with any questions.

Report Submission

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

Project Name: 94-02 148TH ST&147-20 94TH AVE
Project Number: 12292

Lab Number: L1601674
Report Date: 01/27/16

Case Narrative (continued)

MDL column.

Total Metals

L1601674-06: The Field Blank has a concentration above the reporting limit for Barium, Copper and Sodium. The results were confirmed.

The WG859084-1 Method Blank, associated with L1601674-01 through -06, has a concentration above the reporting limit for Manganese. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte or non-detect, no corrective action is required.

The WG859084-3/-4 MS/MSD recoveries, performed on L1601674-04, are outside the acceptance criteria for aluminum (MS at 156%), iron (250%/0%) and manganese (MS at 136%). A post digestion spike was performed and was within acceptance criteria.

The WG859084-3 MS recovery for sodium (73%), performed on L1601674-04, does not apply because the sample concentration is greater than four times the spike amount added.

The WG859084-3/-4 MS/MSD RPDs for aluminum (30%), iron (61%) and manganese (25%), performed on L1601674-04, are above the acceptance criteria.

Dissolved Metals

The WG859143-1 Method Blank, associated with L1601674-01 through -05, has a concentration above the reporting limit for Barium. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

The WG859143-3/-4 MS/MSD recoveries for sodium (11%/0%), performed on L1601674-04, do not apply because the sample concentration is greater than four times the spike amount added.

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

Report Date: 01/27/16

Title: Technical Director/Representative



Appendix C
Data Summary Form I's
With Qualifications

Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-01	Date Collected : 01/19/16 16:55
Client ID : MW-1	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/25/16 15:08
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : MS
Lab File ID : 0125A10	Instrument ID : VOA116.I
Sample Amount : 10 ml	GC Column : RTX-502.2
Level : LOW	%Solids : N/A
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U <i>VJ</i>
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U <i>VJ</i>
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

for 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-01
 Client ID : MW-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A10
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 16:55
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:08
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U UJ
67-64-1	Acetone	ND	5.0	1.5	U R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-01
 Client ID : MW-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A10
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 16:55
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:08
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U <i>UJ</i>
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U <i>R</i>
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

MS
2/1/16



Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-02
 Client ID : MW-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A11
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 13:30
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:33
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.27	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

JOT 2/11/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-02
 Client ID : MW-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A11
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 13:30
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:33
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U VJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U VJ
67-64-1	Acetone	ND	5.0	1.5	U R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U VJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

JSM
 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-02
 Client ID : MW-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A11
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 13:30
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:33
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U <i>UJ</i>
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U <i>R</i>
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

MS
2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-03
 Client ID : MW-2A *C Field Dup of MW-2)*
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 13:35
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:58
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.26	0.50	0.18	U J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

JPW 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A <i>(Field dup of MW-2)</i>	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/25/16 15:58
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,8260C	Analyst : MS
Lab File ID : 0125A12	Instrument ID : VOA116.I
Sample Amount : 10 ml	GC Column : RTX-502.2
Level : LOW	%Solids : N/A
Extract Volume (MeOH) : N/A	Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U - UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U - UJ
67-64-1	Acetone	ND - 1.6	5.0	1.5	U - UJ R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U - R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U - UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

MS 1/21/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-03
 Client ID : MW-2A (Field report MW-2)
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A12
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 13:35
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 15:58
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U UJ
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

JSM
 2/11/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-04
 Client ID : MW-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 09:50
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 16:23
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.31	0.50	0.18	U J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U U J
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U



for 2/10/16

Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-04
 Client ID : MW-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 09:50
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 16:23
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U UJ (10)
67-64-1	Acetone	ND - 1.5	5.0	1.5	U UJ R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

JOP
 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-04
 Client ID : MW-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A13
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 09:50
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 16:23
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U <i>VS</i>
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U <i>R</i>
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

for 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-05
 Client ID : MW-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A14
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 19:55
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 16:48
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	0.90	0.50	0.18	J
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U UJ
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

JOT 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-05
 Client ID : MW-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A14
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 19:55
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 16:48
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.I
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U UJ
67-64-1	Acetone	ND 2.0	5.0	1.5	U UJ R
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

JOM
 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-05
 Client ID : MW-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A14
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 19:55
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 16:48
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U <i>UT</i>
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U <i>R</i>
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

MS
2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-06
 Client ID : FIELD BLANK-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A15
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 15:00
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 17:13
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U <i>UJ</i>
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U <i>UJ</i>
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

MS 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-06
 Client ID : FIELD BLANK-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A15
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 15:00
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 17:13
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	-U UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	-U UJ
67-64-1	Acetone	4.0	5.0	1.5	-U J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	-U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	-U UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

JOM 2/11/16



Form 1 Volatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-06
Client ID : FIELD BLANK-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : 0125A15
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 15:00
Date Received : 01/20/16
Date Analyzed : 01/25/16 17:13
Dilution Factor : 1
Analyst : MS
Instrument ID : VOA116.1
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U UJ
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U R
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

JOM
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Form 1

Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-07
 Client ID : TRIP BLANK-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A16
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 00:00
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 17:38
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
75-09-2	Methylene chloride	ND	2.5	0.70	U
75-34-3	1,1-Dichloroethane	ND	2.5	0.70	U
67-66-3	Chloroform	ND	2.5	0.70	U
56-23-5	Carbon tetrachloride	ND	0.50	0.13	U
78-87-5	1,2-Dichloropropane	ND	1.0	0.13	U
124-48-1	Dibromochloromethane	ND	0.50	0.15	U
79-00-5	1,1,2-Trichloroethane	ND	1.5	0.50	U
127-18-4	Tetrachloroethene	ND	0.50	0.18	U <i>UT</i>
108-90-7	Chlorobenzene	ND	2.5	0.70	U
75-69-4	Trichlorofluoromethane	ND	2.5	0.70	U
107-06-2	1,2-Dichloroethane	ND	0.50	0.13	U
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.70	U
75-27-4	Bromodichloromethane	ND	0.50	0.19	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.16	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.14	U
542-75-6	1,3-Dichloropropene, Total	ND	0.50	0.14	U
563-58-6	1,1-Dichloropropene	ND	2.5	0.70	U
75-25-2	Bromoform	ND	2.0	0.65	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.14	U
71-43-2	Benzene	ND	0.50	0.16	U
108-88-3	Toluene	ND	2.5	0.70	U
100-41-4	Ethylbenzene	ND	2.5	0.70	U
74-87-3	Chloromethane	ND	2.5	0.70	U
74-83-9	Bromomethane	ND	2.5	0.70	U <i>UT</i>
75-01-4	Vinyl chloride	ND	1.0	0.07	U
75-00-3	Chloroethane	ND	2.5	0.70	U
75-35-4	1,1-Dichloroethene	ND	0.50	0.14	U

MS 2/10/16



Form 1 Volatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-07
 Client ID : TRIP BLANK-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8260C
 Lab File ID : 0125A16
 Sample Amount : 10 ml
 Level : LOW
 Extract Volume (MeOH) : N/A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 00:00
 Date Received : 01/20/16
 Date Analyzed : 01/25/16 17:38
 Dilution Factor : 1
 Analyst : MS
 Instrument ID : VOA116.1
 GC Column : RTX-502.2
 %Solids : N/A
 Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
156-60-5	trans-1,2-Dichloroethene	ND	2.5	0.70	U
79-01-6	Trichloroethene	ND	0.50	0.18	U
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.70	U
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.70	U
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.70	U
1634-04-4	Methyl tert butyl ether	ND	2.5	0.70	U
179601-23-1	p/m-Xylene	ND	2.5	0.70	U
95-47-6	o-Xylene	ND	2.5	0.70	U
1330-20-7	Xylenes, Total	ND	2.5	0.70	U
156-59-2	cis-1,2-Dichloroethene	ND	2.5	0.70	U
540-59-0	1,2-Dichloroethene, Total	ND	2.5	0.70	U
74-95-3	Dibromomethane	ND	5.0	1.0	U
96-18-4	1,2,3-Trichloropropane	ND	2.5	0.70	U
107-13-1	Acrylonitrile	ND	5.0	1.5	U UJ
100-42-5	Styrene	ND	2.5	0.70	U
75-71-8	Dichlorodifluoromethane	ND	5.0	1.0	U UJ
67-64-1	Acetone	3.7	5.0	1.5	U J
75-15-0	Carbon disulfide	ND	5.0	1.0	U
78-93-3	2-Butanone	ND	5.0	1.9	U R
108-05-4	Vinyl acetate	ND	5.0	1.0	U
108-10-1	4-Methyl-2-pentanone	ND	5.0	1.0	U UJ
591-78-6	2-Hexanone	ND	5.0	1.0	U
74-97-5	Bromochloromethane	ND	2.5	0.70	U
594-20-7	2,2-Dichloropropane	ND	2.5	0.70	U
106-93-4	1,2-Dibromoethane	ND	2.0	0.65	U
142-28-9	1,3-Dichloropropane	ND	2.5	0.70	U
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.70	U

for
 2/10/16



Form 1

Volatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-07
Client ID : TRIP BLANK-4
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8260C
Lab File ID : 0125A16
Sample Amount : 10 ml
Level : LOW
Extract Volume (MeOH) : N/A

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 00:00
Date Received : 01/20/16
Date Analyzed : 01/25/16 17:38
Dilution Factor : 1
Analyst : MS
Instrument ID : VOA116.1
GC Column : RTX-502.2
%Solids : N/A
Injection Volume : N/A

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
108-86-1	Bromobenzene	ND	2.5	0.70	U
104-51-8	n-Butylbenzene	ND	2.5	0.70	U
135-98-8	sec-Butylbenzene	ND	2.5	0.70	U
98-06-6	tert-Butylbenzene	ND	2.5	0.70	U
95-49-8	o-Chlorotoluene	ND	2.5	0.70	U
106-43-4	p-Chlorotoluene	ND	2.5	0.70	U
96-12-8	1,2-Dibromo-3-chloropropane	ND	2.5	0.70	U
87-68-3	Hexachlorobutadiene	ND	2.5	0.70	U
98-82-8	Isopropylbenzene	ND	2.5	0.70	U
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	U
91-20-3	Naphthalene	ND	2.5	0.70	U
103-65-1	n-Propylbenzene	ND	2.5	0.70	U
87-61-6	1,2,3-Trichlorobenzene	ND	2.5	0.70	U
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	0.70	U
108-67-8	1,3,5-Trimethylbenzene	ND	2.5	0.70	U
95-63-6	1,2,4-Trimethylbenzene	ND	2.5	0.70	U
123-91-1	1,4-Dioxane	ND	250	41.	U
105-05-5	p-Diethylbenzene	ND	2.0	0.70	U
622-96-8	p-Ethyltoluene	ND	2.0	0.70	U
95-93-2	1,2,4,5-Tetramethylbenzene	ND	2.0	0.65	U
60-29-7	Ethyl ether	ND	2.5	0.70	U
110-57-6	trans-1,4-Dichloro-2-butene	ND	2.5	0.70	U

MS
2/11/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-01
 Client ID : MW-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D
 Lab File ID : 01674-01
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 16:55
 Date Received : 01/20/16
 Date Analyzed : 01/27/16 12:52
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : PS
 Instrument ID : SV103.I
 GC Column : RTX-5
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
78-59-1	Isophorone	ND	5.0	0.60	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
92-52-4	Biphenyl	ND	2.0	0.76	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-01
Client ID : MW-1
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-01
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 16:55
Date Received : 01/20/16
Date Analyzed : 01/27/16 12:52
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U
132-64-9	Dibenzofuran	ND	2.0	0.66	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-01
 Client ID : MW-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D-SIM
 Lab File ID : 01674-01
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 16:55
 Date Received : 01/20/16
 Date Analyzed : 01/26/16 23:49
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : KV
 Instrument ID : DAKOTA.I
 GC Column : RXI-5Si1MS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.20	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.20	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.20	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.20	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.20	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.04	U
218-01-9	Chrysene	ND	0.20	0.04	U
208-96-8	Acenaphthylene	ND	0.20	0.04	U
120-12-7	Anthracene	ND	0.20	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.20	0.04	U
86-73-7	Fluorene	ND	0.20	0.04	U
85-01-8	Phenanthrene	ND	0.20	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.04	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	0.20	0.04	U
129-00-0	Pyrene	ND	0.20	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.20	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-02
Client ID : MW-2
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-02
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 13:30
Date Received : 01/20/16
Date Analyzed : 01/27/16 13:18
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.1
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
78-59-1	Isophorone	ND	5.0	0.60	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
92-52-4	Biphenyl	ND	2.0	0.76	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-02
Client ID : MW-2
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-02
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 13:30
Date Received : 01/20/16
Date Analyzed : 01/27/16 13:18
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U
132-64-9	Dibenzofuran	ND	2.0	0.66	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-02
 Client ID : MW-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D-SIM
 Lab File ID : 01674-02
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 13:30
 Date Received : 01/20/16
 Date Analyzed : 01/27/16 00:20
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : KV
 Instrument ID : DAKOTA.I
 GC Column : RXI-5SiIMS
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.20	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.20	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.20	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.20	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.20	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.04	U
218-01-9	Chrysene	ND	0.20	0.04	U
208-96-8	Acenaphthylene	ND	0.20	0.04	U
120-12-7	Anthracene	ND	0.20	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.20	0.04	U
86-73-7	Fluorene	ND	0.20	0.04	U
85-01-8	Phenanthrene	ND	0.20	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.04	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	0.20	0.04	U
129-00-0	Pyrene	ND	0.20	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.20	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Form 1 SemiVolatile Organics

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number: 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A <i>CPUP of MW-2</i>	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/27/16 13:43
Sample Matrix : WATER	Date Extracted : 01/26/16
Analytical Method : 1,8270D	Dilution Factor : 1
Lab File ID : 01674-03	Analyst : PS
Sample Amount : 1000 ml	Instrument ID : SV103.I
Extraction Method : EPA 3510C	GC Column : RTX-5
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
78-59-1	Isophorone	ND	5.0	0.60	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Dlethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
92-52-4	Biphenyl	ND	2.0	0.76	U

for 2/9/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-03
 Client ID : MW-2A (DUP @ MW-2)
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D
 Lab File ID : 01674-03
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 13:35
 Date Received : 01/20/16
 Date Analyzed : 01/27/16 13:43
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : PS
 Instrument ID : SV103.I
 GC Column : RTX-5
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U
132-64-9	Dibenzofuran	ND	2.0	0.66	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzolc Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U

JSM
 2/9/16



Form 1 SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-03
 Client ID : MW-2A (COUP OF MW-2)
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D-SIM
 Lab File ID : 01674-03
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 13:35
 Date Received : 01/20/16
 Date Analyzed : 01/27/16 00:51
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : KV
 Instrument ID : DAKOTA.I
 GC Column : RXI-5SiIMS
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.20	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.20	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.20	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.20	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.20	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.04	U
218-01-9	Chrysene	ND	0.20	0.04	U
208-96-8	Acenaphthylene	ND	0.20	0.04	U
120-12-7	Anthracene	ND	0.20	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.20	0.04	U
86-73-7	Fluorene	ND	0.20	0.04	U
85-01-8	Phenanthrene	ND	0.20	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.04	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	0.20	0.04	U
129-00-0	Pyrene	ND	0.20	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.20	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U

Jof
 1/19/16



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-04
Client ID : MW-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-04
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 09:50
Date Received : 01/20/16
Date Analyzed : 01/27/16 14:08
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
78-59-1	Isophorone	ND	5.0	0.60	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
92-52-4	Biphenyl	ND	2.0	0.76	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-04
Client ID : MW-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-04
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 09:50
Date Received : 01/20/16
Date Analyzed : 01/27/16 14:08
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U
132-64-9	Dibenzofuran	ND	2.0	0.66	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U



Form 1 SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-04
Client ID : MW-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D-SIM
Lab File ID : 01674-04
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 09:50
Date Received : 01/20/16
Date Analyzed : 01/27/16 01:22
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : KV
Instrument ID : DAKOTA.I
GC Column : RXI-5SILMS
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.20	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.20	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.20	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.20	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.20	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.04	U
218-01-9	Chrysene	ND	0.20	0.04	U
208-96-8	Acenaphthylene	ND	0.20	0.04	U
120-12-7	Anthracene	ND	0.20	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.20	0.04	U
86-73-7	Fluorene	ND	0.20	0.04	U
85-01-8	Phenanthrene	ND	0.20	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.04	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	0.20	0.04	U
129-00-0	Pyrene	ND	0.20	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.20	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-05
Client ID : MW-4
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-05
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 19:55
Date Received : 01/20/16
Date Analyzed : 01/27/16 14:34
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
78-59-1	Isophorone	ND	5.0	0.60	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDiPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	ND	5.0	0.63	U
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
92-52-4	Biphenyl	ND	2.0	0.76	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-05
Client ID : MW-4
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-05
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 19:55
Date Received : 01/20/16
Date Analyzed : 01/27/16 14:34
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U
132-64-9	Dibenzofuran	ND	2.0	0.66	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-05
 Client ID : MW-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D-SIM
 Lab File ID : 01674-05
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 19:55
 Date Received : 01/20/16
 Date Analyzed : 01/27/16 01:53
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : KV
 Instrument ID : DAKOTA.I
 GC Column : RXI-5SiIMS
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.20	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.20	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.20	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.20	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.20	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.04	U
218-01-9	Chrysene	ND	0.20	0.04	U
208-96-8	Acenaphthylene	ND	0.20	0.04	U
120-12-7	Anthracene	ND	0.20	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.20	0.04	U
86-73-7	Fluorene	ND	0.20	0.04	U
85-01-8	Phenanthrene	ND	0.20	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.04	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	0.20	0.04	U
129-00-0	Pyrene	ND	0.20	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.20	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-06
Client ID : FIELD BLANK-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-06
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number: 12292
Date Collected : 01/19/16 15:00
Date Received : 01/20/16
Date Analyzed : 01/27/16 14:59
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.66	U
111-44-4	Bis(2-chloroethyl)ether	ND	2.0	0.67	U
95-50-1	1,2-Dichlorobenzene	ND	2.0	0.73	U
541-73-1	1,3-Dichlorobenzene	ND	2.0	0.73	U
106-46-7	1,4-Dichlorobenzene	ND	2.0	0.71	U
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	1.4	U
121-14-2	2,4-Dinitrotoluene	ND	5.0	0.84	U
606-20-2	2,6-Dinitrotoluene	ND	5.0	1.1	U
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.62	U
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.73	U
108-60-1	Bis(2-chloroisopropyl)ether	ND	2.0	0.70	U
111-91-1	Bis(2-chloroethoxy)methane	ND	5.0	0.63	U
77-47-4	Hexachlorocyclopentadiene	ND	20	7.8	U
78-59-1	Isophorone	ND	5.0	0.60	U
98-95-3	Nitrobenzene	ND	2.0	0.75	U
86-30-6	NitrosoDIPhenylAmine(NDPA)/DPA	ND	2.0	0.64	U
621-64-7	n-Nitrosodi-n-propylamine	ND	5.0	0.70	U
117-81-7	Bis(2-Ethylhexyl)phthalate	ND	3.0	0.91	U
85-68-7	Butyl benzyl phthalate	ND	5.0	1.3	U
84-74-2	Di-n-butylphthalate	ND	5.0	0.69	U
117-84-0	Di-n-octylphthalate	ND	5.0	1.1	U
84-66-2	Diethyl phthalate	1.2	5.0	0.63	J
131-11-3	Dimethyl phthalate	ND	5.0	0.65	U
92-52-4	Biphenyl	ND	2.0	0.76	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-06
Client ID : FIELD BLANK-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8270D
Lab File ID : 01674-06
Sample Amount : 1000 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 15:00
Date Received : 01/20/16
Date Analyzed : 01/27/16 14:59
Date Extracted : 01/26/16
Dilution Factor : 1
Analyst : PS
Instrument ID : SV103.I
GC Column : RTX-5
%Solids : N/A
Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
106-47-8	4-Chloroaniline	ND	5.0	0.63	U
88-74-4	2-Nitroaniline	ND	5.0	1.1	U
99-09-2	3-Nitroaniline	ND	5.0	1.1	U
100-01-6	4-Nitroaniline	ND	5.0	1.3	U
132-64-9	Dibenzofuran	ND	2.0	0.66	U
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	10	0.67	U
98-86-2	Acetophenone	ND	5.0	0.85	U
88-06-2	2,4,6-Trichlorophenol	ND	5.0	0.68	U
59-50-7	P-Chloro-M-Cresol	ND	2.0	0.62	U
95-57-8	2-Chlorophenol	ND	2.0	0.63	U
120-83-2	2,4-Dichlorophenol	ND	5.0	0.77	U
105-67-9	2,4-Dimethylphenol	ND	5.0	1.6	U
88-75-5	2-Nitrophenol	ND	10	1.5	U
100-02-7	4-Nitrophenol	ND	10	1.8	U
51-28-5	2,4-Dinitrophenol	ND	20	5.5	U
534-52-1	4,6-Dinitro-o-cresol	ND	10	2.1	U
108-95-2	Phenol	ND	5.0	1.9	U
95-48-7	2-Methylphenol	ND	5.0	1.0	U
108-39-4/106-44-5	3-Methylphenol/4-Methylphenol	ND	5.0	1.1	U
95-95-4	2,4,5-Trichlorophenol	ND	5.0	0.72	U
65-85-0	Benzoic Acid	ND	50	13.	U
100-51-6	Benzyl Alcohol	ND	2.0	0.72	U
86-74-8	Carbazole	ND	2.0	0.63	U



Form 1

SemiVolatile Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-06
 Client ID : FIELD BLANK-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8270D-SIM
 Lab File ID : 01674-06
 Sample Amount : 1000 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N

Lab Number : L1601674
 Project Number: 12292
 Date Collected : 01/19/16 15:00
 Date Received : 01/20/16
 Date Analyzed : 01/27/16 02:24
 Date Extracted : 01/26/16
 Dilution Factor : 1
 Analyst : KV
 Instrument ID : DAKOTA.I
 GC Column : RXI-5SiIMS
 %Solids : N/A
 Injection Volume 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
83-32-9	Acenaphthene	ND	0.20	0.04	U
91-58-7	2-Chloronaphthalene	ND	0.20	0.04	U
206-44-0	Fluoranthene	ND	0.20	0.04	U
87-68-3	Hexachlorobutadiene	ND	0.50	0.04	U
91-20-3	Naphthalene	ND	0.20	0.04	U
56-55-3	Benzo(a)anthracene	ND	0.20	0.02	U
50-32-8	Benzo(a)pyrene	ND	0.20	0.04	U
205-99-2	Benzo(b)fluoranthene	ND	0.20	0.02	U
207-08-9	Benzo(k)fluoranthene	ND	0.20	0.04	U
218-01-9	Chrysene	ND	0.20	0.04	U
208-96-8	Acenaphthylene	ND	0.20	0.04	U
120-12-7	Anthracene	ND	0.20	0.04	U
191-24-2	Benzo(ghi)perylene	ND	0.20	0.04	U
86-73-7	Fluorene	ND	0.20	0.04	U
85-01-8	Phenanthrene	ND	0.20	0.02	U
53-70-3	Dibenzo(a,h)anthracene	ND	0.20	0.04	U
193-39-5	Indeno(1,2,3-cd)Pyrene	ND	0.20	0.04	U
129-00-0	Pyrene	ND	0.20	0.04	U
91-57-6	2-Methylnaphthalene	ND	0.20	0.05	U
87-86-5	Pentachlorophenol	ND	0.80	0.22	U
118-74-1	Hexachlorobenzene	ND	0.80	0.03	U
67-72-1	Hexachloroethane	ND	0.80	0.03	U



Form 1 GC Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-01
Client ID : MW-1
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8081B
Lab File ID : 11160126-09
Sample Amount : 500 ml
Extraction Method : EPA 3510C
Extract Volume : 5000 uL
GPC Cleanup : N
Sulfur Cleanup : N

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 16:55
Date Received : 01/20/16
Date Analyzed : 01/26/16 11:20
Date Extracted : 01/24/16
Dilution Factor : 1
Analyst : SS
Instrument ID : PEST11
GC Column : CLPPesticides
%Solids : N/A
Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U



Form 1 GC Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-02
Client ID : MW-2
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8081B
Lab File ID : 11160126-10
Sample Amount : 500 ml
Extraction Method : EPA 3510C
Extract Volume : 5000 uL
GPC Cleanup : N
Sulfur Cleanup : N

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 13:30
Date Received : 01/20/16
Date Analyzed : 01/26/16 11:36
Date Extracted : 01/24/16
Dilution Factor : 1
Analyst : SS
Instrument ID : PEST11
GC Column : CLPPesticides
%Solids : N/A
Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U



Form 1 GC Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-03
Client ID : MW-2A (DUPLICATE)
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8081B
Lab File ID : 11160126-11
Sample Amount : 500 ml
Extraction Method : EPA 3510C
Extract Volume : 5000 uL
GPC Cleanup : N
Sulfur Cleanup : N

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 13:35
Date Received : 01/20/16
Date Analyzed : 01/26/16 11:52
Date Extracted : 01/24/16
Dilution Factor : 1
Analyst : SS
Instrument ID : PEST11
GC Column : CLPPesticides
%Solids : N/A
Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U

SS
 2/11/16



Form 1 GC Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-04
 Client ID : MW-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8081B
 Lab File ID : 11160126-12
 Sample Amount : 500 ml
 Extraction Method : EPA 3510C
 Extract Volume : 5000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 09:50
 Date Received : 01/20/16
 Date Analyzed : 01/26/16 12:08
 Date Extracted : 01/24/16
 Dilution Factor : 1
 Analyst : SS
 Instrument ID : PEST11
 GC Column : CLPPesticides
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U



Form 1 GC Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-05
 Client ID : MW-4
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8081B
 Lab File ID : 11160126-13
 Sample Amount : 500 ml
 Extraction Method : EPA 3510C
 Extract Volume : 5000 uL
 GPC Cleanup : N
 Sulfur Cleanup : N

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 19:55
 Date Received : 01/20/16
 Date Analyzed : 01/26/16 12:24
 Date Extracted : 01/24/16
 Dilution Factor : 1
 Analyst : SS
 Instrument ID : PEST11
 GC Column : CLPPesticides
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	0.011	0.040	0.004	J
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-06	Date Collected : 01/19/16 15:00
Client ID : FIELD BLANK-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/26/16 12:40
Sample Matrix : WATER	Date Extracted : 01/24/16
Analytical Method : 1,8081B	Dilution Factor : 1
Lab File ID : 11160126-14	Analyst : SS
Sample Amount : 500 ml	Instrument ID : PEST11
Extraction Method : EPA 3510C	GC Column : CLPPesticides
Extract Volume : 5000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : N	

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
319-86-8	Delta-BHC	ND	0.020	0.005	U
58-89-9	Lindane	ND	0.020	0.004	U
319-84-6	Alpha-BHC	ND	0.020	0.004	U
319-85-7	Beta-BHC	ND	0.020	0.006	U
76-44-8	Heptachlor	ND	0.020	0.003	U
309-00-2	Aldrin	ND	0.020	0.002	U
1024-57-3	Heptachlor epoxide	ND	0.020	0.004	U
72-20-8	Endrin	ND	0.040	0.004	U
53494-70-5	Endrin ketone	ND	0.040	0.005	U
60-57-1	Dieldrin	ND	0.040	0.004	U
72-55-9	4,4'-DDE	ND	0.040	0.004	U
72-54-8	4,4'-DDD	ND	0.040	0.005	U
50-29-3	4,4'-DDT	ND	0.040	0.004	U
959-98-8	Endosulfan I	ND	0.020	0.003	U
33213-65-9	Endosulfan II	ND	0.040	0.005	U
1031-07-8	Endosulfan sulfate	ND	0.040	0.005	U
72-43-5	Methoxychlor	ND	0.200	0.007	U
8001-35-2	Toxaphene	ND	0.200	0.063	U
5103-71-9	cis-Chlordane	ND	0.020	0.007	U
5103-74-2	trans-Chlordane	ND	0.020	0.006	U
57-74-9	Chlordane	ND	0.200	0.046	U



Form 1 GC Organics

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-01 Client ID : MW-1 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,8082A Lab File ID : 13160126-25 Sample Amount : 1200 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N Sulfur Cleanup : Y	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 16:55 Date Received : 01/20/16 Date Analyzed : 01/26/16 17:22 Date Extracted : 01/25/16 Dilution Factor : 1 Analyst : JW Instrument ID : PEST13 GC Column : CLP-Pesticide %Solids : N/A Injection Volume : 1 uL
---	---

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U



Form 1 GC Organics

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-02 Client ID : MW-2 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,8082A Lab File ID : 13160126-26 Sample Amount : 1200 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N Sulfur Cleanup : Y	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 13:30 Date Received : 01/20/16 Date Analyzed : 01/26/16 17:35 Date Extracted : 01/25/16 Dilution Factor : 1 Analyst : JW Instrument ID : PEST13 GC Column : CLP-Pesticide %Solids : N/A Injection Volume : 1 uL
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CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U



Form 1 GC Organics

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A (COUPO8HW-2)	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/26/16 17:48
Sample Matrix : WATER	Date Extracted : 01/25/16
Analytical Method : 1,8082A	Dilution Factor : 1
Lab File ID : 13160126-27	Analyst : JW
Sample Amount : 1200 ml	Instrument ID : PEST13
Extraction Method : EPA 3510C	GC Column : CLP-Pesticide
Extract Volume : 1000 uL	%Solids : N/A
GPC Cleanup : N	Injection Volume : 1 uL
Sulfur Cleanup : Y	

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U

JW
2/11/16



Form 1 GC Organics

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-04
 Client ID : MW-3
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,8082A
 Lab File ID : 13160126-28
 Sample Amount : 1200 ml
 Extraction Method : EPA 3510C
 Extract Volume : 1000 uL
 GPC Cleanup : N
 Sulfur Cleanup : Y

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 09:50
 Date Received : 01/20/16
 Date Analyzed : 01/26/16 18:02
 Date Extracted : 01/25/16
 Dilution Factor : 1
 Analyst : JW
 Instrument ID : PEST13
 GC Column : CLP-Pesticide
 %Solids : N/A
 Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U



Form 1 GC Organics

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-05 Client ID : MW-4 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,8082A Lab File ID : 13160126-29 Sample Amount : 1200 ml Extraction Method : EPA 3510C Extract Volume : 1000 uL GPC Cleanup : N Sulfur Cleanup : Y	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 19:55 Date Received : 01/20/16 Date Analyzed : 01/26/16 18:15 Date Extracted : 01/25/16 Dilution Factor : 1 Analyst : JW Instrument ID : PEST13 GC Column : CLP-Pesticide %Solids : N/A Injection Volume : 1 uL
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CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U



Form 1 GC Organics

Client : AKRF, Inc.
Project Name : 94-02 148TH ST&147-20 94TH AVE
Lab ID : L1601674-06
Client ID : FIELD BLANK-3
Sample Location : QUEENS, NY
Sample Matrix : WATER
Analytical Method : 1,8082A
Lab File ID : 13160126-30
Sample Amount : 1200 ml
Extraction Method : EPA 3510C
Extract Volume : 1000 uL
GPC Cleanup : N
Sulfur Cleanup : Y

Lab Number : L1601674
Project Number : 12292
Date Collected : 01/19/16 15:00
Date Received : 01/20/16
Date Analyzed : 01/26/16 18:28
Date Extracted : 01/25/16
Dilution Factor : 1
Analyst : JW
Instrument ID : PEST13
GC Column : CLP-Pesticide
%Solids : N/A
Injection Volume : 1 uL

CAS NO.	Parameter	ug/L			Qualifier
		Results	RL	MDL	
12674-11-2	Aroclor 1016	ND	0.083	0.055	U
11104-28-2	Aroclor 1221	ND	0.083	0.053	U
11141-16-5	Aroclor 1232	ND	0.083	0.031	U
53469-21-9	Aroclor 1242	ND	0.083	0.060	U
12672-29-6	Aroclor 1248	ND	0.083	0.051	U
11097-69-1	Aroclor 1254	ND	0.083	0.034	U
11096-82-5	Aroclor 1260	ND	0.083	0.032	U
37324-23-5	Aroclor 1262	ND	0.083	0.029	U
11100-14-4	Aroclor 1268	ND	0.083	0.038	U
1336-36-3	PCBs, Total	ND	0.083	0.029	U



Form 1 METALS

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-01
 Client ID : MW-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,6020A
 Lab File ID : wg859471.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 16:55
 Date Received : 01/20/16
 Date Analyzed : 01/22/16 14:41
 Dilution Factor : 1
 Analyst : TT
 Instrument ID : ICPMSQ
 %Solids : N/A
 Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier	
		Results	RL	MDL		
7440-36-0	Antimony, Total	ND	0.0003	0.0020	0.0001	J-U
7440-38-2	Arsenic, Total		0.0007	0.0005	0.0001	
7440-39-3	Barium, Total		0.0519	0.0005	0.0001	
7440-41-7	Beryllium, Total	ND		0.0005	0.0002	U
7440-43-9	Cadmium, Total	ND		0.0002	0.0001	U
7440-70-2	Calcium, Total		46.6	0.100	0.032	
7440-47-3	Chromium, Total		0.0035	0.0010	0.0003	
7440-48-4	Cobalt, Total		0.0021	0.0005	0.0001	
7440-50-8	Copper, Total		0.0040	0.0010	0.0003	
7439-89-6	Iron, Total		2.76	0.050	0.012	
7439-92-1	Lead, Total		0.0072	0.0010	0.0001	
7439-95-4	Magnesium, Total		4.04	0.070	0.022	
7439-96-5	Manganese, Total		0.1326	0.0010	0.0003	
7440-02-0	Nickel, Total		0.0076	0.0020	0.0001	
7440-09-7	Potassium, Total		5.13	0.100	0.019	
7782-49-2	Selenium, Total		0.002	0.005	0.001	J
7440-22-4	Silver, Total	ND		0.0004	0.0001	U
7440-23-5	Sodium, Total		28.8	0.100	0.016	
7440-28-0	Thallium, Total	ND		0.0005	0.0001	U
7440-62-2	Vanadium, Total		0.0026	0.0050	0.0006	J
7440-66-6	Zinc, Total		0.0061	0.0100	0.0026	J

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Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-01 Client ID : MW-1 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,6020A Lab File ID : wg859471.pdf Sample Amount : 50ml Digestion Method : EPA 3005A	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 16:55 Date Received : 01/20/16 Date Analyzed : 01/22/16 14:45 Dilution Factor : 20 Analyst : TT Instrument ID : ICPMSQ %Solids : N/A Date Digested : 01/21/16
--	---

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.748	0.200	0.034	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-01	Date Collected : 01/19/16 16:55
Client ID : MW-1	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 19:18
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : EA
Lab File ID : Hg4012116C.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-01
 Client ID : MW-1
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,6020A
 Lab File ID : wg859164.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 16:55
 Date Received : 01/20/16
 Date Analyzed : 01/21/16 16:13
 Dilution Factor : 1
 Analyst : BM
 Instrument ID : ICPMSX
 %Solids : N/A
 Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualfler
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	0.0100	0.0100	0.00169	
7440-36-0	Antimony, Dissolved	ND 0.00061	0.00300	0.00006	J U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00012	U
7440-39-3	Barium, Dissolved	0.04444	0.00050	0.00006	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00015	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	41.5	0.100	0.0320	
7440-47-3	Chromium, Dissolved	ND 0.00139	0.00200	0.00025	J U
7440-48-4	Cobalt, Dissolved	0.00007	0.00050	0.00006	J
7440-50-8	Copper, Dissolved	0.00202	0.00100	0.00026	
7439-89-6	Iron, Dissolved	ND 0.0185	0.0500	0.0120	J U
7439-92-1	Lead, Dissolved	0.00127	0.00100	0.00012	
7439-95-4	Magnesium, Dissolved	4.15	0.0700	0.0223	
7439-96-5	Manganese, Dissolved	0.00943	0.00100	0.00030	
7440-02-0	Nickel, Dissolved	0.00421	0.00200	0.00008	
7440-09-7	Potassium, Dissolved	5.20	0.100	0.0193	
7782-49-2	Selenium, Dissolved	ND	0.00500	0.00100	U
7440-22-4	Silver, Dissolved	ND	0.00040	0.00007	U
7440-28-0	Thallium, Dissolved	ND	0.00050	0.00005	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00055	U
7440-66-6	Zinc, Dissolved	0.00579	0.01000	0.00256	J

JOP 2/11/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-01	Date Collected : 01/19/16 16:55
Client ID : MW-1	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 16:17
Sample Matrix : WATER	Dilution Factor : 20
Analytical Method : 1,6020A	Analyst : BM
Lab File ID : wg859164.pdf	Instrument ID : ICPMSX
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-23-5	Sodium, Dissolved	33.0	2.00	0.322	



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-01 Client ID : MW-1 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,7470A Lab File ID : Hg4012216B.pcl Sample Amount : 25ml Digestion Method : EPA 7470A	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 16:55 Date Received : 01/20/16 Date Analyzed : 01/22/16 17:06 Dilution Factor : 1 Analyst : KL Instrument ID : FIMS4 %Solids : N/A Date Digested : 01/22/16
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-02	Date Collected : 01/19/16 13:30
Client ID : MW-2	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 14:48
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.299	0.010	0.002	J
7440-36-0	Antimony, Total	ND	0.0020	0.0001	U
7440-38-2	Arsenic, Total	0.0004	0.0005	0.0001	J
7440-39-3	Barium, Total	0.0485	0.0005	0.0001	
7440-41-7	Beryllium, Total	ND	0.0005	0.0002	U
7440-43-9	Cadmium, Total	ND	0.0002	0.0001	U
7440-70-2	Calcium, Total	43.6	0.100	0.032	
7440-47-3	Chromium, Total	0.0021	0.0010	0.0003	
7440-48-4	Cobalt, Total	0.0011	0.0005	0.0001	
7440-50-8	Copper, Total	0.0018	0.0010	0.0003	
7439-89-6	Iron, Total	0.845	0.050	0.012	J
7439-92-1	Lead, Total	NO 0.0006	0.0010	0.0001	J U
7439-95-4	Magnesium, Total	10.9	0.070	0.022	
7439-96-5	Manganese, Total	0.0855	0.0010	0.0003	J
7440-02-0	Nickel, Total	0.0042	0.0020	0.0001	
7440-09-7	Potassium, Total	4.63	0.100	0.019	
7782-49-2	Selenium, Total	0.003	0.005	0.001	J
7440-22-4	Silver, Total	ND	0.0004	0.0001	U
7440-23-5	Sodium, Total	28.4	0.100	0.016	
7440-28-0	Thallium, Total	ND	0.0005	0.0001	U
7440-62-2	Vanadium, Total	0.0009	0.0050	0.0006	J
7440-66-6	Zinc, Total	0.0032	0.0100	0.0026	J

for
2/11/16



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-02 Client ID : MW-2 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,7470A Lab File ID : Hg4012116C.pcl Sample Amount : 25ml Digestion Method : EPA 7470A	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 13:30 Date Received : 01/20/16 Date Analyzed : 01/21/16 19:20 Dilution Factor : 1 Analyst : EA Instrument ID : FIMS4 %Solids : N/A Date Digested : 01/21/16
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.
 Project Name : 94-02 148TH ST&147-20 94TH AVE
 Lab ID : L1601674-02
 Client ID : MW-2
 Sample Location : QUEENS, NY
 Sample Matrix : WATER
 Analytical Method : 1,6020A
 Lab File ID : wg859164.pdf
 Sample Amount : 50ml
 Digestion Method : EPA 3005A

Lab Number : L1601674
 Project Number : 12292
 Date Collected : 01/19/16 13:30
 Date Received : 01/20/16
 Date Analyzed : 01/21/16 16:20
 Dilution Factor : 1
 Analyst : BM
 Instrument ID : ICPMSX
 %Solids : N/A
 Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier	
		Results	RL	MDL		
7429-90-5	Aluminum, Dissolved	ND	0.00921	0.0100	0.00169	J-U
7440-36-0	Antimony, Dissolved	ND	0.00040	0.00300	0.00006	J-U
7440-38-2	Arsenic, Dissolved	ND		0.00050	0.00012	U
7440-39-3	Barium, Dissolved		0.04318	0.00050	0.00006	
7440-41-7	Beryllium, Dissolved	ND		0.00050	0.00015	U
7440-43-9	Cadmium, Dissolved	ND		0.00020	0.00005	U
7440-70-2	Calcium, Dissolved		42.1	0.100	0.0320	
7440-47-3	Chromium, Dissolved	ND	0.00171	0.00200	0.00025	J-U
7440-48-4	Cobalt, Dissolved		0.00011	0.00050	0.00006	J
7440-50-8	Copper, Dissolved	ND	0.00087	0.00100	0.00026	J-U
7439-89-6	Iron, Dissolved	ND		0.0500	0.0120	U
7439-92-1	Lead, Dissolved	ND		0.00100	0.00012	U
7439-95-4	Magnesium, Dissolved		11.3	0.0700	0.0223	
7439-96-5	Manganese, Dissolved		0.01238	0.00100	0.00030	
7440-02-0	Nickel, Dissolved		0.00284	0.00200	0.00008	
7440-09-7	Potassium, Dissolved		4.73	0.100	0.0193	
7782-49-2	Selenium, Dissolved		0.00296	0.00500	0.00100	J
7440-22-4	Silver, Dissolved	ND		0.00040	0.00007	U
7440-28-0	Thallium, Dissolved	ND		0.00050	0.00005	U
7440-62-2	Vanadium, Dissolved	ND		0.00500	0.00055	U
7440-66-6	Zinc, Dissolved		0.00379	0.01000	0.00256	J

BM
 2/11/16



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-02 Client ID : MW-2 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,6020A Lab File ID : wg859164.pdf Sample Amount : 50ml Digestion Method : EPA 3005A	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 13:30 Date Received : 01/20/16 Date Analyzed : 01/21/16 16:24 Dilution Factor : 20 Analyst : BM Instrument ID : ICPMSX %Solids : N/A Date Digested : 01/21/16
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-23-5	Sodium, Dissolved	36.1	2.00	0.322	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-02	Date Collected : 01/19/16 13:30
Client ID : MW-2	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 17:08
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : KL
Lab File ID : Hg4012216B.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/22/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A (DUP of MW-2)	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 14:54
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier	
		Results	RL	MDL		
7440-36-0	Antimony, Total	ND	0.0001	0.0020	0.0001	J U
7440-38-2	Arsenic, Total		0.0006	0.0005	0.0001	
7440-39-3	Barium, Total		0.0529	0.0005	0.0001	
7440-41-7	Beryllium, Total		ND	0.0005	0.0002	U
7440-43-9	Cadmium, Total		ND	0.0002	0.0001	U
7440-70-2	Calcium, Total		46.7	0.100	0.032	
7440-47-3	Chromium, Total		0.0034	0.0010	0.0003	
7440-48-4	Cobalt, Total		0.0021	0.0005	0.0001	
7440-50-8	Copper, Total		0.0031	0.0010	0.0003	
7439-89-6	Iron, Total		1.73	0.050	0.012	J
7439-92-1	Lead, Total		0.0012	0.0010	0.0001	
7439-95-4	Magnesium, Total		11.1	0.070	0.022	
7439-96-5	Manganese, Total		0.1643	0.0010	0.0003	J
7440-02-0	Nickel, Total		0.0069	0.0020	0.0001	
7440-09-7	Potassium, Total		4.94	0.100	0.019	
7782-49-2	Selenium, Total		0.004	0.005	0.001	J
7440-22-4	Silver, Total		ND	0.0004	0.0001	U
7440-23-5	Sodium, Total		29.5	0.100	0.016	
7440-28-0	Thallium, Total		ND	0.0005	0.0001	U
7440-62-2	Vanadium, Total		0.0017	0.0050	0.0006	J
7440-66-6	Zinc, Total		0.0056	0.0100	0.0026	J

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Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 15:06
Sample Matrix : WATER	Dilution Factor : 20
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.550	0.200	0.034	J

JOM
 2/11/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A <i>(AUP of MW-2)</i>	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 19:22
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : EA
Lab File ID : Hg4012116C.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U

EA
 1/21/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A <i>(DUP of MW-2)</i>	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 16:43
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : BM
Lab File ID : wg859164.pdf	Instrument ID : ICPMSX
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	0.0115	0.0100	0.00169	
7440-36-0	Antimony, Dissolved	<i>ND</i> 0.00023	0.00300	0.00006	<i>J-U</i>
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00012	U
7440-39-3	Barium, Dissolved	0.04296	0.00050	0.00006	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00015	U
7440-43-9	Cadmium, Dissolved	0.00006	0.00020	0.00005	J
7440-70-2	Calcium, Dissolved	41.8	0.100	0.0320	
7440-47-3	Chromium, Dissolved	<i>ND</i> 0.00195	0.00200	0.00025	<i>J-U</i>
7440-48-4	Cobalt, Dissolved	0.00010	0.00050	0.00006	J
7440-50-8	Copper, Dissolved	<i>ND</i> 0.00082	0.00100	0.00026	<i>J-U</i>
7439-89-6	Iron, Dissolved	<i>ND</i> 0.0151	0.0500	0.0120	<i>J-U</i>
7439-92-1	Lead, Dissolved	ND	0.00100	0.00012	U
7439-95-4	Magnesium, Dissolved	11.4	0.0700	0.0223	
7439-96-5	Manganese, Dissolved	0.01274	0.00100	0.00030	
7440-02-0	Nickel, Dissolved	0.00374	0.00200	0.00008	
7440-09-7	Potassium, Dissolved	4.71	0.100	0.0193	
7782-49-2	Selenium, Dissolved	0.00296	0.00500	0.00100	J
7440-22-4	Silver, Dissolved	ND	0.00040	0.00007	U
7440-28-0	Thallium, Dissolved	ND	0.00050	0.00005	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00055	U
7440-66-6	Zinc, Dissolved	<i>ND</i> 0.00488	0.01000	0.00256	<i>J-U</i>

JBM
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Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A (04008 MW-2)	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 16:49
Sample Matrix : WATER	Dilution Factor : 20
Analytical Method : 1,6020A	Analyst : BM
Lab File ID : wg859164.pdf	Instrument ID : ICPMSX
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-23-5	Sodium, Dissolved	37.0	2.00	0.322	

LOT 211116



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-03	Date Collected : 01/19/16 13:35
Client ID : MW-2A (Dup of MW-2)	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 17:10
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : KL
Lab File ID : Hg4012216B.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/22/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00006	U

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Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-04	Date Collected : 01/19/16 09:50
Client ID : MW-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 12:49
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier	
		Results	RL	MDL		
7440-36-0	Antimony, Total	ND	0.0003	0.0020	0.0001	JU
7440-38-2	Arsenic, Total		0.0007	0.0005	0.0001	
7440-39-3	Barium, Total		0.0588	0.0005	0.0001	
7440-41-7	Beryllium, Total		ND	0.0005	0.0002	U
7440-43-9	Cadmium, Total		0.0001	0.0002	0.0001	J
7440-70-2	Calcium, Total		17.1	0.100	0.032	
7440-47-3	Chromium, Total		0.0051	0.0010	0.0003	
7440-48-4	Cobalt, Total		0.0042	0.0005	0.0001	
7440-50-8	Copper, Total		0.0051	0.0010	0.0003	
7439-89-6	Iron, Total		2.99	0.050	0.012	J+
7439-92-1	Lead, Total		0.0020	0.0010	0.0001	
7439-95-4	Magnesium, Total		5.40	0.070	0.022	
7439-96-5	Manganese, Total		0.3251	0.0010	0.0003	J+
7440-02-0	Nickel, Total		0.0084	0.0020	0.0001	
7440-09-7	Potassium, Total		6.21	0.100	0.019	
7782-49-2	Selenium, Total		0.005	0.005	0.001	J
7440-22-4	Silver, Total		ND	0.0004	0.0001	U
7440-28-0	Thallium, Total		ND	0.0005	0.0001	U
7440-62-2	Vanadium, Total		0.0036	0.0050	0.0006	J
7440-66-6	Zinc, Total		0.0141	0.0100	0.0026	

JOM
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Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-04	Date Collected : 01/19/16 09:50
Client ID : MW-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 12:46
Sample Matrix : WATER	Dilution Factor : 20
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	1.15	0.200	0.034	J+
7440-23-5	Sodium, Total	72.6	2.00	0.322	

JOT
 2/11/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-04	Date Collected : 01/19/16 09:50
Client ID : MW-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 19:13
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : EA
Lab File ID : Hg4012116C.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-04	Date Collected : 01/19/16 09:50
Client ID : MW-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 16:53
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : BM
Lab File ID : wg859164.pdf	Instrument ID : ICPMSX
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	0.0634	0.0100	0.00169	
7440-36-0	Antimony, Dissolved	0.00041 NO	0.00300	0.00006	J-U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00012	U
7440-39-3	Barium, Dissolved	0.04445	0.00050	0.00006	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00015	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	17.0	0.100	0.0320	
7440-47-3	Chromium, Dissolved	0.00317	0.00200	0.00025	
7440-48-4	Cobalt, Dissolved	0.00031	0.00050	0.00006	J
7440-50-8	Copper, Dissolved	0.00071 NO	0.00100	0.00026	J-U
7439-89-6	Iron, Dissolved	0.134	0.0500	0.0120	
7439-92-1	Lead, Dissolved	0.00015 NO	0.00100	0.00012	J-U
7439-95-4	Magnesium, Dissolved	5.46	0.0700	0.0223	
7439-96-5	Manganese, Dissolved	0.02599	0.00100	0.00030	
7440-02-0	Nickel, Dissolved	0.00394	0.00200	0.00008	
7440-09-7	Potassium, Dissolved	6.44	0.100	0.0193	
7782-49-2	Selenium, Dissolved	0.00309	0.00500	0.00100	J
7440-22-4	Silver, Dissolved	ND	0.00040	0.00007	U
7440-28-0	Thallium, Dissolved	ND	0.00050	0.00005	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00055	U
7440-66-6	Zinc, Dissolved	0.00905	0.01000	0.00256	J

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2/11/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-04	Date Collected : 01/19/16 09:50
Client ID : MW-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 16:57
Sample Matrix : WATER	Dilution Factor : 20
Analytical Method : 1,6020A	Analyst : BM
Lab File ID : wg859164.pdf	Instrument ID : ICPMSX
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-23-5	Sodium, Dissolved	82.5	2.00	0.322	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-04	Date Collected : 01/19/16 09:50
Client ID : MW-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 17:01
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : KL
Lab File ID : Hg4012216B.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/22/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-05	Date Collected : 01/19/16 19:55
Client ID : MW-4	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 15:09
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-36-0	Antimony, Total	ND	0.0020	0.0001	J
7440-38-2	Arsenic, Total	0.0021	0.0005	0.0001	
7440-39-3	Barium, Total	0.0934	0.0005	0.0001	
7440-41-7	Beryllium, Total	0.0002	0.0005	0.0002	J
7440-43-9	Cadmium, Total	0.0001	0.0002	0.0001	J
7440-70-2	Calcium, Total	30.0	0.100	0.032	
7440-47-3	Chromium, Total	0.0107	0.0010	0.0003	
7440-48-4	Cobalt, Total	0.0102	0.0005	0.0001	
7440-50-8	Copper, Total	0.0157	0.0010	0.0003	
7439-89-6	Iron, Total	12.0	0.050	0.012	
7439-92-1	Lead, Total	0.0076	0.0010	0.0001	
7439-95-4	Magnesium, Total	9.45	0.070	0.022	
7440-02-0	Nickel, Total	0.0139	0.0020	0.0001	
7440-09-7	Potassium, Total	5.55	0.100	0.019	
7782-49-2	Selenium, Total	0.003	0.005	0.001	J
7440-22-4	Silver, Total	ND	0.0004	0.0001	U
7440-28-0	Thallium, Total	0.0001	0.0005	0.0001	J
7440-62-2	Vanadium, Total	0.0114	0.0050	0.0006	
7440-66-6	Zinc, Total	0.0167	0.0100	0.0026	

Handwritten signature and date: 2/11/16



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-05	Date Collected : 01/19/16 19:55
Client ID : MW-4	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 15:12
Sample Matrix : WATER	Dilution Factor : 20
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	3.06	0.200	0.034	
7439-96-5	Manganese, Total	0.5548	0.0200	0.0060	
7440-23-5	Sodium, Total	77.1	2.00	0.322	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-05	Date Collected : 01/19/16 19:55
Client ID : MW-4	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 19:24
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : EA
Lab File ID : Hg4012116C.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-05	Date Collected : 01/19/16 19:55
Client ID : MW-4	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/21/16 17:00
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : BM
Lab File ID : wg859164.pdf	Instrument ID : ICPMSX
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Dissolved	0.0106	0.0100	0.00169	
7440-36-0	Antimony, Dissolved	ND 0.00057	0.00300	0.00006	J U
7440-38-2	Arsenic, Dissolved	ND	0.00050	0.00012	U
7440-39-3	Barium, Dissolved	0.04932	0.00050	0.00006	
7440-41-7	Beryllium, Dissolved	ND	0.00050	0.00015	U
7440-43-9	Cadmium, Dissolved	ND	0.00020	0.00005	U
7440-70-2	Calcium, Dissolved	28.1	0.100	0.0320	
7440-47-3	Chromium, Dissolved	ND 0.00156	0.00200	0.00025	J U
7440-48-4	Cobalt, Dissolved	0.00010	0.00050	0.00006	J
7440-50-8	Copper, Dissolved	0.00147	0.00100	0.00026	
7439-89-6	Iron, Dissolved	ND 0.0228	0.0500	0.0120	J U
7439-92-1	Lead, Dissolved	ND	0.00100	0.00012	U
7439-95-4	Magnesium, Dissolved	8.38	0.0700	0.0223	
7439-96-5	Manganese, Dissolved	0.01493	0.00100	0.00030	
7440-02-0	Nickel, Dissolved	0.00325	0.00200	0.00008	
7440-09-7	Potassium, Dissolved	4.90	0.100	0.0193	
7782-49-2	Selenium, Dissolved	0.00178	0.00500	0.00100	J
7440-22-4	Silver, Dissolved	ND	0.00040	0.00007	U
7440-28-0	Thallium, Dissolved	ND	0.00050	0.00005	U
7440-62-2	Vanadium, Dissolved	ND	0.00500	0.00055	U
7440-66-6	Zinc, Dissolved	ND 0.00418	0.01000	0.00256	J U

JOT 2/11/16



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-05 Client ID : MW-4 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,6020A Lab File ID : wg859164.pdf Sample Amount : 50ml Digestion Method : EPA 3005A	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 19:55 Date Received : 01/20/16 Date Analyzed : 01/21/16 17:04 Dilution Factor : 20 Analyst : BM Instrument ID : ICPMSX %Solids : N/A Date Digested : 01/21/16
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7440-23-5	Sodium, Dissolved	93.5	2.00	0.322	



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-05	Date Collected : 01/19/16 19:55
Client ID : MW-4	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 17:12
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,7470A	Analyst : KL
Lab File ID : Hg4012216B.pcl	Instrument ID : FIMS4
Sample Amount : 25ml	%Solids : N/A
Digestion Method : EPA 7470A	Date Digested : 01/22/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Dissolved	ND	0.00020	0.00006	U



Form 1 METALS

Client : AKRF, Inc.	Lab Number : L1601674
Project Name : 94-02 148TH ST&147-20 94TH AVE	Project Number : 12292
Lab ID : L1601674-06	Date Collected : 01/19/16 15:00
Client ID : FIELD BLANK-3	Date Received : 01/20/16
Sample Location : QUEENS, NY	Date Analyzed : 01/22/16 15:44
Sample Matrix : WATER	Dilution Factor : 1
Analytical Method : 1,6020A	Analyst : TT
Lab File ID : wg859471.pdf	Instrument ID : ICPMSQ
Sample Amount : 50ml	%Solids : N/A
Digestion Method : EPA 3005A	Date Digested : 01/21/16

CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7429-90-5	Aluminum, Total	0.005	0.010	0.002	J
7440-36-0	Antimony, Total	ND	0.0020	0.0001	U
7440-38-2	Arsenic, Total	ND	0.0005	0.0001	U
7440-39-3	Barium, Total	0.0008	0.0005	0.0001	
7440-41-7	Beryllium, Total	ND	0.0005	0.0002	U
7440-43-9	Cadmium, Total	ND	0.0002	0.0001	U
7440-70-2	Calcium, Total	0.093	0.100	0.032	J
7440-47-3	Chromium, Total	0.0005	0.0010	0.0003	J
7440-48-4	Cobalt, Total	ND	0.0005	0.0001	U
7440-50-8	Copper, Total	0.0044	0.0010	0.0003	
7439-89-6	Iron, Total	0.015	0.050	0.012	J
7439-92-1	Lead, Total	ND	0.0010	0.0001	U
7439-95-4	Magnesium, Total	ND	0.070	0.022	U
7439-96-5	Manganese, Total	0.0004	0.0010	0.0003	JB
7440-02-0	Nickel, Total	0.0019	0.0020	0.0001	J
7440-09-7	Potassium, Total	0.022	0.100	0.019	J
7782-49-2	Selenium, Total	ND	0.005	0.001	U
7440-22-4	Silver, Total	ND	0.0004	0.0001	U
7440-23-5	Sodium, Total	0.290	0.100	0.016	
7440-28-0	Thallium, Total	ND	0.0005	0.0001	U
7440-62-2	Vanadium, Total	ND	0.0050	0.0006	U
7440-66-6	Zinc, Total	ND	0.0100	0.0026	U



Form 1 METALS

Client : AKRF, Inc. Project Name : 94-02 148TH ST&147-20 94TH AVE Lab ID : L1601674-06 Client ID : FIELD BLANK-3 Sample Location : QUEENS, NY Sample Matrix : WATER Analytical Method : 1,7470A Lab File ID : Hg4012116C.pcl Sample Amount : 25ml Digestion Method : EPA 7470A	Lab Number : L1601674 Project Number : 12292 Date Collected : 01/19/16 15:00 Date Received : 01/20/16 Date Analyzed : 01/21/16 19:26 Dilution Factor : 1 Analyst : EA Instrument ID : FIMS4 %Solids : N/A Date Digested : 01/21/16
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CAS NO.	Parameter	mg/l			Qualifier
		Results	RL	MDL	
7439-97-6	Mercury, Total	ND	0.00020	0.00006	U

