

521 East Tremont Avenue

BRONX, NEW YORK

Subsurface (Phase II) Investigation Report

AKRF Project Number: 190204

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1.0 INTRODUCTION

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) Investigation in connection with the redevelopment of the property located at 521 East Tremont Avenue in the East Tremont neighborhood of the Bronx, New York (the “Site”). Alternative addresses for the Site include 1904 Bathgate Avenue, 4223 Third Avenue, and 513 East Tremont Avenue. The Site is identified as Tax Block 3043, Lots 46, 72, 77, and 80 on the New York City Tax Map. The approximately 24,800-square foot Site currently consists of two mixed-use buildings on Lots 77 and 80, and adjacent parking lots on Lots 46, 72, and 77. The proposed redevelopment project includes construction of a 14-story mixed-use residential building with commercial space on the first floor and one cellar level. The Site location is shown on Figures 1 and 2.

The purpose of the Subsurface (Phase II) Investigation was to determine whether past uses on- or off-site have adversely affected the Site’s subsurface. The scope of the investigation was based on the findings of a Phase I Environmental Site Assessment (ESA) prepared by ALC Environmental, dated May 2019. Field activities were conducted on July 10 and 12, 2019 and included: a geophysical survey; the advancement of 6 soil borings with the collection and laboratory analysis of 11 soil samples; the installation of 3 temporary groundwater monitoring wells, with the collection and laboratory analysis of 3 groundwater samples; and the installation of 4 soil vapor samples, with the collection and laboratory analysis of 4 soil vapor samples. This report describes the methods and results of the investigation.

2.0 PREVIOUS ENVIRONMENTAL REPORTS

Geotechnical Investigation Report – Proposed 14-Story Mixed-Use Building, 521 East Tremont Ave., Bronx, New York, SESI Consulting Engineers, May 2019

SESI Consulting Engineers (SESI) conducted a geotechnical investigation at the Site in May 2019. Nine borings were advanced within the footprint of the proposed building and within the adjacent sidewalks to a maximum depth of approximately 68 feet below grade. One test pit was excavated in the western portion of the Site down to approximately 8 feet below grade, to determine the depth of the adjacent building's footing. The stratigraphy beneath the Site consisted of surficial materials (asphalt and concrete) between 4 and 10 inches thick, underlain by historic fill material up to approximately 8 to 14 feet below grade. Underlying the fill layer was a light brown/gray alluvial deposit clayey-silt with varying amounts of fine sand. The alluvial layer was encountered in two borings located along the northeastern portion of the Site, adjacent to Third Avenue. Glacial till, consisting of brown/gray fine to medium sand with clayey-silt and fine to medium gravel, was found to be underlying the existing fill. Glacial till ranged in thickness from 2 to 27 feet thick. Bedrock was encountered at depths ranging from approximately 10 feet below grade in the western portion of the Site to approximately 63 feet below grade in the eastern portion of the Site. Groundwater was encountered in four of the borings at depths between 9 to 20 feet below grade. Split-spoon soil samples were collected in accordance with ASTM D1586.

Phase I Environmental Site Assessment – 521 East Tremont Avenue, Block 3043, Lots 46, 72, 77, and 80, Bronx, New York, ALC Environmental, May 2019

ALC Environmental (ALC) was contracted by M521 Tremont LLC to conduct a Phase I Environmental Site Assessment (ESA) of the Site. The Phase I ESA was performed in general conformance with the scope and limitations of the American International (ASTM) Practice E1527-13. The report identified the following Recognized Environmental Conditions (RECs):

- According to the historical Fire Insurance (Sanborn) maps and city directories reviewed, a printing facility (identified as 'Tremont Printing Co.') operated on Lot 77 (4215 Third Avenue) between at least 1915 and 1927. Printing activities typically generate hazardous wastes in the form of spent inks, oils, and solvents. Based on the lack of hazardous waste regulations prior to the 1970s, it is likely that hazardous wastes associated with said printing facility were improperly disposed of, and therefore the former printing facility at the Site constitutes a REC.
- The historical records reviewed indicated that Lot 72 (4223-4229 Third Avenue) was previously improved with a single-story commercial building. This former building was occupied by a dry cleaning facility identified as 'Hyvee French Cleaners' between at least 1961 and 1980. Dry cleaning activities typically generated hazardous wastes consisting of halogenated solvents such as tetrachloroethylene (PCE). This former building was razed sometime between 1981 and 1984, and the site was converted into the existing paved, outdoor parking lot. Based on the lack of hazardous waste regulations prior to the 1970s and the length of operation of this former drycleaners, the historical use of the Site for dry-cleaning purposes constitutes a REC.

Previous environmental reports for the Site are included in Appendix A.

3.0 PHYSICAL SETTING

The Site is located in the East Tremont neighborhood of the Bronx, New York, approximately one-mile west of the Bronx River. Bedrock outcroppings were observed in Tremont Park, located on the southeast-adjacent block. Regional surface topography slopes toward the southwest. The Site is approximately 60 to 70 feet above the North American Vertical Datum (NAVD) of 1988 (an approximation of mean sea level).

During the Subsurface (Phase II) Investigation, the stratigraphy beneath the Site consisted of fill material (comprising sand, silt, gravel, ash, and brick) from just below the pavement surface to approximately 5 to 20 feet below grade, underlain by apparent native material consisting of sand, gravel, and silt. Groundwater was measured in three temporary wells between approximately 1 to 18 feet below grade. Based on topography, groundwater would be anticipated to flow in a southwesterly direction. However, actual groundwater flow direction in can be affected by many factors, including subsurface openings or obstructions such as subway tunnels, basements, utilities, bedrock geology, and other factors beyond the scope of this assessment. Groundwater in the Bronx is not used as a source of potable water.

4.0 FIELD ACTIVITIES

Field activities were conducted on July 10 and 12, 2019 and included: a geophysical survey across accessible portions of the Site; the advancement of 6 soil borings with the collection and laboratory analysis of 11 soil samples; the installation of 3 temporary groundwater monitoring wells with the collection and laboratory analysis of 3 groundwater samples; and the installation of 4 temporary soil vapor probes with the collection and laboratory analysis of 4 soil vapor samples. A Site and Sample Location Plan is provided as Figure 2.

4.1 Geophysical Survey

On July 10, 2019, Enviroprobe Service, Inc. (Enviroprobe), of Mount Laurel, New Jersey conducted a geophysical survey, which included Ground Penetrating Radar (GPR) and magnetometry. The geophysical survey did not identify any anomalies in the subsurface of the Site that would suggest the presence of underground storage tanks (USTs). On-site utilities including electric and gas were located in the northern parking lots along Third Avenue; soil boring and soil vapor probe locations were adjusted to account for utility clearance. The geophysical report is included in Appendix B.

4.2 Soil Sampling and Laboratory Analysis

On July 10 and 12, 2019, Cascade Technical Services, LLC (Cascade) of Lynbrook, New York advanced four borings (SB-01, SB-02, SB-04, and SB-05) using a track-mounted Geoprobe® Direct Push Probe (DPP) drill rig. Two borings (SB-03 and SB-06) were advanced using a remote cart-mounted Geoprobe® DPP drill rig. The boring locations are shown on Figure 2. Soil borings were advanced to depths between 6 and 30 feet below grade. Presumed shallow bedrock was encountered at approximately 13 feet below grade in boring SB-01, approximately 18.5 feet below grade in boring SB-05, and approximately 7 feet below grade in boring SB-06. Soil cores were continuously collected from the Geoprobe® borings in 5-foot long or 3-foot long 2-inch diameter, stainless steel macrocore piston rod samplers fitted with dedicated, internal acetate liners. The macrocores were field-screened using a photoionization detector (PID), which measures relative concentrations of volatile organic compounds (VOCs) calibrated to a 100 parts per million (ppm) isobutylene standard. At each boring, AKRF personnel recorded and documented subsurface conditions. Two samples were collected for laboratory analysis from each boring; one from the top 2 feet of soil below existing pavement, and one from the 2-foot interval below the proposed excavation depth (approximately 10 feet below grade). Due to shallow groundwater encountered in boring SB-03, only one shallow soil sample was collected. Soil boring logs are provided in Appendix C.

Soil samples slated for laboratory analysis were placed in laboratory-supplied containers in accordance with Environmental Protection Agency (EPA) protocols. Soil samples were analyzed by TestAmerica Laboratories, Inc. (TestAmerica) of Shelton, Connecticut, a New York State

Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP)-certified laboratory, for Target Compound List (TCL) VOCs by EPA Method 8260, TCL semivolatile organic compounds (SVOCs) by EPA Method 8270, polychlorinated biphenyls (PCBs) by EPA Method 8082, pesticides by EPA Method 8081, Target Analyte List (TAL) metals (6000/7000 series), and hexavalent chromium by EPA Method 7196.

4.3 Groundwater Sampling and Laboratory Analysis

Three of the soil borings (SB-02, SB-03, and SB-05) were converted into 1-inch, temporary groundwater monitoring well points (denoted as TW-02, TW-03, and TW-05, respectively) as shown on Figure 2. A temporary monitoring well was proposed at SB-01; however, due to multiple equipment refusals on apparent bedrock above the groundwater interface, a monitoring well was not installed at that location. The temporary monitoring wells were installed approximately 5 feet below the water table at depths ranging from 10 to 30 feet below grade and were constructed with 10 feet of 0.020-inch slotted polyvinyl chloride (PVC) well screen with solid well riser to approximately 1 to 2 feet above ground surface. The annular space between the well screen and borehole was backfilled with No. 2 Morie sand.

The temporary monitoring wells were sampled the day they were installed using a peristaltic pump and dedicated polyethylene tubing. Prior to purging, the depth to groundwater and total well depth were measured in each well using an interface probe with a measuring tape accurate to 0.01 foot. The wells were purged of at least three well volumes prior to sampling. The purged groundwater was field-screened for evidence of potential impacts [e.g., sheen, odors, non-aqueous phase liquid (NAPL)]. During sampling, a multi-parameter water quality meter was utilized to measure various water quality indicators (e.g., pH, dissolved oxygen, oxidation-reduction potential, temperature, and specific conductivity) with measurements collected approximately every five minutes. Groundwater samples were collected once water quality parameters stabilized and three well volumes were purged. Temporary groundwater well construction details are provided on the boring/monitoring well logs in Appendix C. Groundwater sampling logs are provided in Appendix D.

Groundwater samples slated for laboratory analysis were placed in laboratory-supplied containers in accordance with EPA protocols and submitted to TestAmerica for TCL VOCs by EPA Method 8260, TCL SVOCs by EPA Method 8270, PCBs by EPA Method 8082, pesticides by EPA Method 8081, and total and dissolved TAL metals (6000/7000 series). The groundwater analyses for metals were conducted on both filtered and unfiltered samples; filtering occurred in the field. One laboratory-supplied trip blank was submitted with the groundwater samples for Quality Assurance/Quality Control (QA/QC) purposes. The trip blank was analyzed for TCL VOCs only.

4.4 Soil Vapor Sampling and Laboratory Analysis

Four soil vapor points (SV-01, SV-02, SV-03, and SV-04) were installed to approximate depths ranging from 1.5 to 10 feet below grade, depending on depth to groundwater. Due to shallow depth to groundwater, SV-03 was installed at a depth of 1.5 feet below cellar grade, approximately 2 feet above the groundwater table as evident in the accompanying soil boring. Due to shallow refusal on bedrock at SB-04, SV-04 was installed above bedrock at approximately 6 feet below the ground surface. Temporary soil vapor points SV-01, SV-02, SV-03, and SV-04 were constructed with 6-inch stainless steel screen implants with dedicated Teflon™-lined tubing. The area around the points was backfilled with clean silica sand to approximately three inches below the surface, and hydrated bentonite was used to fill the remaining void to grade to prevent short-circuiting of ambient air into the soil vapor sampling point.

Prior to sampling, the soil vapor points were purged of at least three volumes using a Gilian® GilAir Plus low-flow air pump. During purging, an inverted bucket was placed over the 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. The purged vapors were collected into a Tedlar® bag and monitored using a Dielectric Technologies Model MGD-2002 portable helium detector to check for short-circuiting of ambient air into the vapor sampling point and verify the adequacy of the bentonite seal. All soil vapor points passed the seal integrity tests with helium readings below 10%. PID readings of 92.4 ppm, 96.5 ppm, 68.1 ppm, and 34.3 ppm were detected in the purged vapors at soil vapor points SV-01, SV-02, SV-03, and SV-04, respectively.

To collect the soil vapor samples, the points were connected via Teflon™-lined tubing to laboratory-supplied 6-liter SUMMA® canisters equipped with 2-hour flow regulators. Vacuum readings were recorded at the start, middle, and end of the sampling period. The soil vapor samples were analyzed by TestAmerica for VOCs by EPA Method TO-15.

Soil vapor sampling logs are provided as Appendix E.

4.5 Field Observations

4.5.1 Soil

Subsurface materials consisted of historic fill comprising sand, silt, gravel, brick, with trace amounts of wood, metal, glass, and ceramic fragments from just below surface grade to approximately 3 to 15 feet below grade. The fill material was underlain by apparent native soil consisting of brown sand, silt, gravel, and clay down to the boring terminus between approximately 3 and 30 feet below grade. Groundwater was encountered within the borings between 3 and 13 feet below grade. Groundwater was not encountered in SB-04 or SB-06. Presumed shallow bedrock was encountered in four of the six borings between approximately 6 and 18.5 feet below grade. PID readings up to 96.7 ppm and a petroleum-like odor were detected between 5 and 6 feet below grade in boring SB-06. No visual or olfactory evidence of contamination was noted in any other boring.

Soil boring logs are provided in Appendix C.

4.5.2 Groundwater

Groundwater was measured at approximately 18 feet, 1 foot, and 14.95 feet below top of casing in temporary wells TW-02, TW-03, and TW-05, respectively. PID readings up to 7 ppm were detected in the headspace of TW-02; no other temporary well had measurable PID readings. No visual or olfactory evidence of contamination were noted during purging or sampling activities. Groundwater well installation logs are included in Appendix C, and groundwater sampling logs are included in Appendix D.

4.5.3 Soil Vapor

PID readings of 92.4 ppm, 96.5 ppm, 68.1 ppm, and 34.3 ppm were detected in the purged vapors at soil vapor points SV-01, SV-02, SV-03, and SV-04, respectively. Soil vapor sampling logs are included in Appendix E.

4.6 Investigation-Derived Waste

Soil cuttings and purged groundwater did not exhibit evidence of potential impacts (e.g., staining, elevated PID readings, ash, oily sheens, odors, etc.) and were used to fill in the corresponding soil boring hole. Since purged groundwater did not exhibit evidence of

potential impacts, it was discharged to the ground through the respective temporary well location. No soil or groundwater was designated for off-site disposal.

5.0 FINDINGS

5.1 Soil Analysis Results

Soil laboratory analytical results are summarized in Tables 1 through 5. The complete laboratory analytical data reports are included in Appendix F.

Based on proposed property development and end-use, soil results were compared to the New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Restricted Residential SCOs (RRSCOs).

5.1.1 Volatile Organic Compounds (VOCs)

Nine VOCs were detected in the soil samples at concentrations ranging from 0.00054 milligrams per kilogram (mg/kg) to 33 mg/kg. Several of the reported concentrations were marked with a “J” qualifier, indicating estimated concentrations.

No VOCs were detected above RRSCOs. Acetone was detected above its UUSCO of 0.05 mg/kg at concentrations of 33 mg/kg in sample SB-02_10-12_20190710 and 8.4 mg/kg in sample SB-04_3-5_20190710. Cis-1,2-dichloroethene was detected in sample SB-02_10-12_20190710 at a concentration of 2.5 mg/kg, above its UUSCO of 0.25 mg/kg. Methylene chloride was detected at concentrations of 0.54 mg/kg in sample SB-01_0-2_20190710 and 0.96 mg/kg in sample SB-01_10-12_20190710, above the UUSCO of 0.05 mg/kg. Toluene was detected in sample SB-05_0-2_20190710 at a concentration of 18 mg/kg, above its UUSCO of 0.7 mg/kg. Total xylenes were also detected in sample SB-05_0-2_20190710 at a concentration of 6.5 mg/kg, above the UUSCO of 0.26 mg/kg.

No other VOCs were detected above their respective UUSCOs or RRSCOs. Soil analytical results for VOCs are presented in Table 1.

5.1.2 Semivolatile Organic Compounds (SVOCs)

Twenty-five SVOCs were detected in the soil samples at concentrations ranging from 0.0081 mg/kg to 6.4 mg/kg. Detections primarily consisted of polycyclic aromatic hydrocarbons (PAHs), a class of compounds commonly found in some petroleum products, coal ash, and historic fill material.

Of these detections, seven SVOCs were detected at concentrations exceeding their respective UUSCOs and/or RRSCOs. Benzo(a)anthracene and benzo(a)pyrene were detected in five samples at concentrations ranging from 1.2 to 3.5 mg/kg, above the UUSCOs and RRSCOs of 1 mg/kg. Benzo(b)fluoranthene was detected in six samples at concentrations ranging from 1.3 to 5.1 mg/kg, above the UUSCOs and RRSCOs of 1 mg/kg. Benzo[k]fluoranthene was detected in four samples at concentrations ranging from 1.1 to 2.0 mg/kg, above the UUSCO of 1 mg/kg, but below the RRSCO of 3.9 mg/kg. Chrysene was detected in five samples at concentrations ranging from 1.4 to 3.8 mg/kg, above the UUSCO of 1 mg/kg, but below the RRSCO of 3.9 mg/kg. Dibenzo(a,b)anthracene was detected in four samples at concentrations ranging from 0.40 to 0.71 mg/kg, above the UUSCO and RRSCO of 0.33 mg/kg. Ideno[1,2,3-cd]pyrene was detected in six samples at concentrations ranging from 0.66 to 2.6 mg/kg, above the UUSCO and RRSCO of 0.5 mg/kg;

No other SVOCs were detected above their respective UUSCOs or RRSCOs. Soil analytical results for SVOCs are presented in Table 2.

5.1.3 Pesticides

Seven pesticides were detected in the soil samples at concentrations ranging from 0.002 mg/kg to 0.46 mg/kg. Four pesticides were detected in the soil samples at concentrations above UUSCOs. No pesticides were detected above RRSCOs.

4,4'-DDD, 4,4'-DDE, and/or 4,4'-DDT were detected in six samples at concentrations ranging from 0.0077 to 0.23 mg/kg, above the UUSCO of 0.0033 mg/kg. Dieldrin was detected in three samples at concentrations ranging from 0.012 to 0.048 mg/kg, above the UUSCO of 0.005 mg/kg. Some detections were marked with a "p" qualifier, indicating the relative percent difference between the primary and confirmation column and detected is greater than 40%, thus the lower of the two values is reported.

Soil analytical results for pesticides are presented in Table 3.

5.1.4 Polychlorinated Biphenyls (PCBs)

The PCB Aroclor 1260 was detected in two soil samples (SB-05_0-2_20190710 and SB-06_5-7_20190712) at concentrations below the UUSCO and RRSCO for total PCBs. No other PCBs were detected above laboratory reporting limits.

Soil analytical results for PCBs are presented in Table 4.

5.1.5 Metals

Twenty-three metals were detected in the soil samples, with nine metals (arsenic, barium, copper, hexavalent chromium, lead, manganese, mercury, selenium, and zinc) detected at concentrations above their respective UUSCOs and/or RRSCOs, at concentrations ranging from 0.19 mg/kg to 1,410 mg/kg.

Arsenic was detected in sample SB-05_0-2_20190710 at a concentration of 51.7 mg/kg, above the UUSCO of 13 mg/kg and RRSCO of 16 mg/kg. Barium was detected in three samples at concentrations ranging from 526 to 1,410 mg/kg, above the UUSCO of 350 mg/kg and RRSCO of 400 mg/kg. Copper was detected in samples SB-02_0-2_20190710 and SB-05_0-2_20190710 at concentrations of 144 mg/kg and 130 mg/kg, respectively, above the UUSCO of 50 mg/kg, but below the RRSCO of 270 mg/kg. Hexavalent chromium was detected in SB-04_0-2_20190710 at a concentration of 3.1 mg/kg, above the UUSCO of 1 mg/kg, but below the RRSCO of 110 mg/kg. Lead was detected in seven samples at concentrations ranging from 172 to 933 mg/kg, above the UUSCO of 63 mg/kg (lead was also detected in samples SB-05_0-2_20190710 and SB-04_3-5_20190711 at concentrations of 933 and 436 mg/kg, respectively, above the RRSCO of 400 mg/kg). Manganese was detected in sample SB-01_0-2_20190710 at a concentration of 1,790 mg/kg, above the UUSCO of 1,600 mg/kg, but below the RRSCO of 2,000 mg/kg. Mercury was detected in seven samples at concentrations ranging from 0.19 mg/kg to 0.95 mg/kg, above the UUSCO of 0.18 mg/kg. Mercury was detected above the RRSCO of 0.81 mg/kg in two samples (SB-05_0-2_20190710 and SB-06_0-2_20190712). Selenium was detected in one sample (SB-05_0-2_20190710) at a concentration of 17.9 mg/kg above the UUSCO of 3.9 mg/kg, but below the RRSCO of 180 mg/kg. Zinc was detected in seven samples at concentrations ranging from 115 mg/kg to 1,180 mg/kg, above the UUSCO of 109 mg/kg, but below the RRSCO of 10,000 mg/kg.

No other metals were detected in the soil samples at concentrations above their respective UUSCOs and/or RRSCO. Soil analytical results for metals are presented in Table 5.

5.2 Groundwater Laboratory Analytical Results

Groundwater laboratory analytical results are summarized in Tables 6 through 11. The complete laboratory analytical data reports are included in Appendix F.

Results were compared to NYSDEC *Technical and Operational Guidance Series (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs)*. It should be noted that Class GA AWQSGVs were developed assuming use of groundwater as a drinking source, a scenario that does not occur at the Site.

5.2.1 Volatile Organic Compounds (VOCs)

Eight VOCs were detected above laboratory reporting limits in the groundwater samples at concentrations ranging from 0.50 to 200 micrograms per liter ($\mu\text{g/L}$). The VOCs cis-1,2-dichloroethylene, tetrachloroethylene (PCE), trichloroethylene (TCE), and vinyl chloride were detected above their respective AWQSGVs.

Cis-1,2-dichloroethylene was detected in one sample (TW-02_20190710) at a concentration of 64 $\mu\text{g/L}$, above the AWQSGV of 5 $\mu\text{g/L}$. PCE was detected in two samples (TW-02_20190710 and TW-05_20190710) at concentrations of 200 $\mu\text{g/L}$ and 57 $\mu\text{g/L}$, respectively, above the AWQSGV of 5 $\mu\text{g/L}$. TCE was detected in sample TW-02_20190710 at a concentration of 120 $\mu\text{g/L}$, above the AWQSGV of 5 $\mu\text{g/L}$. Vinyl chloride was detected in sample TW-02_20190710 at a concentration of 14 $\mu\text{g/L}$, above the AWQSGV of 2 $\mu\text{g/L}$.

No VOCs were detected in the aqueous trip blank. Groundwater analytical results for VOCs are presented in Table 6.

5.2.2 Semivolatile Organic Compounds (SVOCs)

SVOCs were not detected above laboratory reporting limits in any of the groundwater samples analyzed. Groundwater analytical results for SVOCs are presented in Table 7.

5.2.3 Pesticides

Pesticides were not detected above laboratory reporting limits in any of the groundwater samples. Groundwater analytical results for pesticides are presented in Table 8.

5.2.4 Polychlorinated Biphenyls (PCBs)

PCBs were not detected above laboratory reporting limits in any of the groundwater samples. Groundwater analytical results for PCBs are presented in Table 9.

5.2.5 Total Metals

Twenty-one of the 23 metals analyzed for were detected in the unfiltered (total) analysis, with six metals (chromium, iron, lead, magnesium, manganese, and sodium) detected at concentrations above their respective AWQSGVs. Chromium was detected in sample TW-02_20190710 at a concentration of 97 $\mu\text{g/L}$, above the AWQSGV of 50 $\mu\text{g/L}$. Iron was detected at concentrations of 55,000 $\mu\text{g/L}$ and 1,370 $\mu\text{g/L}$ in samples TW-02_20190710 and TW-03_20190712, respectively, above the AWQSGV of 300 $\mu\text{g/L}$. Lead was detected at a concentration of 79.8 $\mu\text{g/L}$ in sample TW-02_20190710, above the AWQSGV of 25 $\mu\text{g/L}$. Magnesium was detected at concentrations of 82,100 and 41,000 $\mu\text{g/L}$ in samples TW-02_20190710 and TW-03_20190712, respectively, above the AWQSGV of 35,000

µg/L. Manganese was detected at a concentration of 2,560 µg/L in sample TW-02_20190710, above the AWQSGV of 300 µg/L. Sodium was detected at concentrations ranging from 160,000 µg/L to 350,000 µg/L in three samples above the AWQSGV of 20,000 µg/L.

Groundwater analytical results for total metals are presented in Table 10.

5.2.6 Dissolved Metals

Twenty-one metals were detected in the filtered (dissolved) analysis of the groundwater samples, with four metals (iron, magnesium, manganese, and sodium) detected at concentrations above their respective AWQSGVs. Iron was detected in sample TW-02_20190710 at a concentration of 1,790 µg/L, above the AWQSGV of 300 µg/L. Magnesium was detected in two samples (TW-02_20190710 and TW-03_20190712) at concentrations of 83,600 µg/L and 47,300 µg/L, respectively, above the AWQSGV of 300 µg/L. Manganese was detected at a concentration of 2,110 µg/L in sample TW-02_20190710, above the AWQSGV of 300 µg/L. Sodium was detected in three samples at concentrations ranging from 186,000 µg/L to 396,000 µg/L, above the AWQSGV of 20,000 µg/L.

Groundwater analytical results for dissolved metals are presented in Table 11.

5.3 Soil Vapor Laboratory Analytical Results

5.3.1 Volatile Organic Compounds (VOCs)

Although there are currently no regulatory or published guidance values for VOCs in soil vapor, soil vapor data was used to assess the potential for exposure to receptors and to help define the nature and extent of contamination at the Site.

Twenty-six VOCs were detected in the soil vapor samples. VOCs associated with petroleum, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-ethyltoluene, benzene, ethylbenzene, m,p-xylenes, n-heptane, n-hexane, o-xylene, and toluene were detected at individual concentrations up to 180 micrograms per cubic meter (µg/m³) (toluene in sample SV-03_20190712). Solvent-related VOCs, including acetone, dichlorodifluoromethane, PCE, and TCE were detected at individual concentrations up to 1,800 µg/m³ (acetone detected in sample SV-01_20190710). All four samples required dilution for sample analysis.

Soil vapor sample laboratory analytical results are presented in Table 12. The complete laboratory analytical data sheets are included in Appendix F.

6.0 CONCLUSIONS

AKRF, Inc. (AKRF) conducted a Subsurface (Phase II) in connection with the redevelopment of the property located at 521 East Tremont Avenue in the East Tremont neighborhood of the Bronx, New York (the “Site”). Alternative addresses for the Site include 1904 Bathgate Avenue, 4223 Third Avenue, and 513 East Tremont Avenue. The Site is identified as Tax Block 3043, Lots 46, 72, 77, and 80 on the New York City Tax Map. The approximately 24,800-square foot Site currently consists of two mixed-use buildings and adjacent parking lots. The proposed redevelopment consists includes construction of a 14-story mixed-use residential building with commercial space on the first floor and one cellar level.

The investigation was conducted to determine whether past uses on or near the Site have adversely affected the Site’s subsurface. Field activities were conducted on July 10 and 12, 2019 and included: a geophysical survey; the advancement of 6 soil borings with the collection and laboratory analysis of 11 soil samples; the installation of 3 temporary groundwater monitoring wells, with the collection and laboratory analysis of 3 groundwater samples; and the installation of 4 soil vapor samples, with the collection and laboratory analysis of 4 soil vapor samples.

The geophysical survey did not detect any underground storage tanks or subsurface anomalies beyond surficial buried electrical and drainage lines in the parking lots along Third Avenue. Subsurface materials consisted of historic fill comprising sand, silt, gravel, and brick, with trace amounts of wood, metal, glass, and ceramic fragments from just below surface grade down to approximately 3 to 15 feet below grade. The fill material was underlain by apparent native soil consisting of brown sand, silt, gravel, and clay down to the boring terminus between approximately 3 and 30 feet below grade. Groundwater was measured at depths between 1 and 18 feet below top of casing in the temporary wells. Presumed shallow bedrock was encountered in four of the six borings between approximately 6 and 18.5 feet below grade. A petroleum-like odor and PID readings up to 96.7 ppm were noted in soil from boring SB-06 between approximately 5 and 6 feet below grade. No visual or olfactory evidence of contamination was noted in any other borings.

Soil sample analytical results were compared to NYSDEC 6 NYCRR Part 375 Soil Cleanup Objectives for Unrestricted Use Soil Cleanup Objectives (UUSCOs) and Soil Cleanup Objectives for Restricted – Residential Restricted Use (RRSCO). The groundwater sample analytical results were compared to NYSDEC *Technical and Operational Guidance Series (TOGS) (1.1.1): Class GA Ambient Water Quality Standards and Guidance Values (AWQSGVs)*.

A summary of the analytical results is as follows:

Soil

- Nine volatile organic compounds (VOCs) were detected in the soil samples above laboratory reporting limits at concentrations ranging from 0.00054 milligrams per kilogram (mg/kg) to 33 mg/kg. Acetone, cis-1,2-dichloroethene, methylene chloride, toluene, and total xylenes were detected above UUSCOs in one or more samples. No other VOCs were detected above UUSCOs and/or RRSCO.
- Twenty-five semivolatile organic compounds (SVOCs) were detected in the soil samples at concentrations ranging from 0.0081 mg/kg to 6.4 mg/kg. Detections primarily consisted of polycyclic aromatic hydrocarbons (PAHs), a class of compounds commonly found in some petroleum products, ash, and historic fill material. Seven PAHs [benzo(a)anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene] were detected at concentrations exceeding UUSCOs and/or RRSCO, ranging from 0.40 mg/kg to 5.1 mg/kg.

- Four pesticides were detected in the soil samples. Dieldrin, 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT were detected above UUSCOs at concentration ranging from 0.0077 mg/kg to 0.23 mg/kg. No pesticides were detected above their respective RRSCOs.
- Total polychlorinated biphenyls (PCBs) were detected above laboratory reporting in two samples (SB-05_0-2_20190710 and SB-06_5-7_20190712). PCBs were not detected above UUSCOs or RRSCOs.
- Twenty-three metals were detected in the soil samples at concentrations ranging from 0.19 mg/kg to 1,410 mg/kg, above UUSCOs and/or RRSCOs. The following metals were detected at concentrations above RRSCOs: arsenic (maximum concentration of 51.7 mg/kg), barium (maximum concentration of 1,410 mg/kg), lead (maximum concentration of 933 mg/kg), and mercury (maximum concentration of 0.95 mg/kg).

Groundwater

- Eight VOCs were detected above laboratory reporting limits in the groundwater samples at concentrations ranging from 0.50 to 200 micrograms per liter ($\mu\text{g/L}$). Cis-1,2-dichloroethylene, tetrachloroethylene (PCE), trichloroethylene (TCE), and vinyl chloride were detected in groundwater sample TW-02_20190710 at concentrations ranging from 14 to 200 $\mu\text{g/L}$, above AWQSGVs. PCE was also detected in sample TW-05_20190710 above the AWQSGV. No other VOCs were detected above laboratory reporting limits in the groundwater samples. No VOCs were detected in the aqueous trip blank.
- SVOCs, pesticides and PCBs were not detected above laboratory reporting limits in any groundwater samples.
- Six metals (chromium, iron, lead, magnesium, manganese, and sodium) detected at concentrations above their respective AWQSGVs in the unfiltered (total) metals analysis in groundwater. Four metals (iron, magnesium, manganese, and sodium) were detected at concentrations above their respective AWQSGVs in the filtered (dissolved) metals analysis in groundwater.

Soil Vapor

- Twenty-six VOCs were detected in the soil vapor samples. VOCs associated with petroleum, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-ethyltoluene, benzene, ethylbenzene, m,p-xylenes, n-heptane, n-hexane, o-xylene, and toluene were detected at individual concentrations up to 180 $\mu\text{g/m}^3$ (toluene detected in sample SV-03_20190712). Solvent-related VOCs, including acetone, PCE, and TCE were detected at individual concentrations up to 1,800 $\mu\text{g/m}^3$ (acetone detected in sample SV-01_20190710).

6.1 Recommendations

Based on the findings of this Subsurface (Phase II) Investigation, AKRF recommends the following:

- Based on the concentrations of VOCs in the groundwater, it is recommended that an application to enter the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) be prepared and submitted.
- During subsurface disturbance, excavated soil and any debris should be handled and disposed of in accordance with a NYSDEC-approved Remedial Action Work Plan (RAWP) or a New York City Department of Environmental Protection (NYCDEP)-approved Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) and applicable regulatory requirements. Any evidence of a petroleum spill should be reported to the NYSDEC and addressed in accordance with applicable requirements.
- Soil and fill materials excavated as part of site development activities should be properly handled and managed in accordance with applicable regulations. Transportation of material leaving the Site for off-site disposal must be in accordance with federal, state and local regulatory requirements covering licensing of haulers and trucks, placarding, truck routes, manifesting, etc.
- Prior to any construction activities with the potential to disturb suspect asbestos-containing materials (ACM), an asbestos survey of the areas to be disturbed should be conducted and any ACM should be removed and disposed of in accordance with local, state and federal requirements.
- Any activities with the potential to disturb lead-based paint surfaces must be performed in accordance with applicable requirements (including federal Occupational Safety and Health Administration regulation 29 CFR 1926.62 - *Lead Exposure in Construction*). Additional requirements may apply if the Site is considered a “child-occupied facility” under USEPA regulations (defined by the number of hours per year when the Site is used by children under six).
- Any unexpectedly encountered underground storage tanks (USTs) or buried former aboveground storage tanks (ASTs), should be properly closed and removed, along with any contaminated soil. The closure should be performed in accordance with the applicable regulations, including NYSDEC tank registration and spill reporting requirements.

7.0 LIMITATIONS

The findings set forth in this report are strictly limited in scope and time to the date of the evaluation described herein. The conclusions and recommendations presented in the report are based solely on the services and any limitations described in this report.

This report may contain conclusions that are based on the analysis of data collected at the time and locations noted in the report through intrusive or non-intrusive sampling. However, further investigation might reveal additional data or variations of the current data, which may differ from our understanding of the conditions presented in this report and require the enclosed recommendations to be reevaluated or modified.

Chemical analyses may have been performed for specific parameters during the course of this investigation, as summarized in the text and tables. It should be noted that additional chemical constituents, not searched for during this investigation, may be present at the Site. Due to the nature of the investigation and the limited data available, no warranty, expressed or implied, shall be construed with respect to undiscovered liabilities. The presence of biological hazards, radioactive materials, lead-based paint and asbestos-containing materials was not investigated, unless specified in the report.

Interpretations of the data, including comparison to regulatory standards, guidelines or background values, are not opinions that these comparisons are legally applicable. Furthermore, any conclusions or recommendations should not be construed as legal advice. For such advice, the client is recommended to seek appropriate legal counsel. Disturbance, handling, transportation, storage and disposal of known or potentially contaminated materials is subject to all applicable laws, which may or may not be fully described as part of this report.

The analytical data, conclusions, and/or recommendations provided in this report should not be construed in any way as a classification of waste that may be generated during future disturbance of the project Site. Waste(s) generated at the Site including excess fill may be considered regulated solid waste and potentially hazardous waste. Requirements for intended disposal facilities should be determined beforehand as the data provided in this report may be insufficient and could vary following additional sampling.

This report may be based solely or partially on data collected, conducted, and provided by, AKRF and/or others. No warranty is expressed or implied by usage of such data. Such data may be included in other investigation reports or documentation. In addition, these reports may have been based upon available previous reports, historical records, documentation from federal, state and local government agencies, personal interviews, and geological mapping. This report is subject, at a minimum, to the limitations of the previous reports, historical documents, availability and accuracy of collected documentation, and personal recollection of those persons interviewed. In certain instances, AKRF has been required to assume that the information provided is accurate with limited or no corroboratory evidence.

This report is intended for the use solely by M521 Tremont LLC. Reliance by third parties on the information and opinions contained herein is strictly prohibited and requires the written consent of AKRF. AKRF accepts no responsibility for damages incurred by third parties for any decisions or actions taken based on this report. This report must be used, interpreted, and presented in its entirety.

8.0 SOIL DISPOSAL ISSUES

In addition to the discussions in the Conclusions, Recommendations, and Limitations Sections (Sections 6.0, 6.1, and 7.0), the issue of appropriate management of off-site disposal of soil warrants careful consideration. Any material being disposed of off-site is a regulated waste, and disposal must be in accordance with:

- Requirements of the specific receiving facility;
- Requirements of any agencies overseeing the cleanup/excavation; and
- Federal and state requirements (sometimes in both the state where the soil is generated and where disposal will occur).

For hazardous wastes and petroleum-contaminated soil (and other “clearly contaminated” materials), the requirements are usually fairly well defined. It is in the situation where contamination is not readily apparent (e.g., so called “historic or urban fill” or “construction and demolition debris” or material that may have been formerly identified as “clean fill”) that present the greatest potential for problems and cost overruns. Even on sites where no contamination requiring remediation is identified, it is common that most of the excavated material is considered “contaminated” for purposes of waste disposal. Concentrations of the various contaminants in historic fill can be highly variable, and upon further testing, the material could contain higher contaminant concentrations than outlined in this investigation. Portions of this material could be classified as hazardous waste.

It is important that the intended disposal facility (or facilities) be identified in advance of off-site disposal. Agency approval is sometimes required for disposal, and the facility will frequently require additional testing prior to (and sometimes at the time of) accepting material. Material must conform to a lengthy list of requirements based on both chemical composition and sometimes numerous other parameters (related to size, percentage of liquids, presence of odors, etc.) for acceptance at the facility. Assuming (or allowing a contractor to assume) that all, or even most, of the soil from a site can be disposed of at minimal cost may result in unanticipated and expensive change orders.

For these reasons, we recommend that professional advice be sought prior to preparing bid documents and contracts incorporating soil disposal.

9.0 REFERENCES

1. U.S. Geological Survey; Central Park Quadrangle - Central Park; 7.5 Minute Series (Topographic); Scale 1:24,000; 2003.
2. 6 NYCRR Section 375-6: Remedial Program Soil Cleanup Objectives (SCOs), December 14, 2006.
3. *Geotechnical Investigation Report – Proposed 14-Story Mixed Use Building*, 521 East Tremont Avenue, Bronx, New York, SESI Consulting Engineers, May 2019.
4. *Phase I Environmental Site Assessment – 521 East Tremont Avenue, Block 3043, Lots 46, 72, 77 and 80*, 521 East Tremont Avenue, Bronx, New York, ALC Environmental, May 2019.

TABLES

Table 1
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

Client ID	NYSDEC	NYSDEC	SB-01_0-2_20190710	SB-01_10-12_20190710	SB-02_0-2_20190710
Lab Sample ID	Part 375	Part 375	460-186281-1	460-186281-2	460-186281-3
Date Sampled	Unrestricted	Restricted	07/10/2019	07/10/2019	07/10/2019
Dilution	SCO	Residential SCO	1	1	1
Analyte	mg/kg	mg/kg			
1,1,1-Trichloroethane	0.68	100	1.2 U *	1.2 U *	1.3 U *
1,1,2,2-Tetrachloroethane	NS	NS	1.2 U	1.2 U	1.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	1.2 U	1.2 U	1.3 U
1,1,2-Trichloroethane	NS	NS	1.2 U	1.2 U	1.3 U
1,1-Dichloroethane	0.27	26	1.2 U	1.2 U	1.3 U
1,1-Dichloroethene	0.33	100	1.2 U	1.2 U	1.3 U
1,2,3-Trichlorobenzene	NS	NS	1.2 U	1.2 U	1.3 U
1,2,4-Trichlorobenzene	NS	NS	1.2 U	1.2 U	1.3 U
1,2-Dibromo-3-Chloropropane	NS	NS	1.2 U	1.2 U	1.3 U
1,2-Dichlorobenzene	1.1	100	1.2 U	1.2 U	1.3 U
1,2-Dichloroethane	0.02	3.1	1.2 U	1.2 U	1.3 U
1,2-Dichloropropane	NS	NS	1.2 U	1.2 U	1.3 U
1,3-Dichlorobenzene	2.4	49	1.2 U	1.2 U	1.3 U
1,4-Dichlorobenzene	1.8	13	1.2 U	1.2 U	1.3 U
1,4-Dioxane	0.1	13	23 U	23 U	26 U
2-Butanone (MEK)	0.12	100	5.8 U	5.8 U	6.5 U
2-Hexanone	NS	NS	5.8 U	5.8 U	6.5 U
4-Methyl-2-pentanone (MIBK)	NS	NS	5.8 U	5.8 U	6.5 U
Acetone	0.05	100	7.0 U	7.0 U	7.8 U
Benzene	0.06	4.8	1.2 U	1.2 U	1.3 U
Bromoform	NS	NS	1.2 U	1.2 U	1.3 U
Bromomethane	NS	NS	1.2 U	1.2 U	1.3 U
Carbon disulfide	NS	NS	1.2 U	1.2 U	1.3 U
Carbon tetrachloride	0.76	2.4	1.2 U	1.2 U	1.3 U
Chlorobenzene	1.1	100	1.2 U	1.2 U	1.3 U
Chlorobromomethane	NS	NS	1.2 U	1.2 U	1.3 U
Chlorodibromomethane	NS	NS	1.2 U	1.2 U	1.3 U
Chloroethane	NS	NS	1.2 U	1.2 U	1.3 U
Chloroform	0.37	49	1.2 U	1.2 U	1.3 U
Chloromethane	NS	NS	1.2 U	1.2 U	1.3 U
cis-1,2-Dichloroethene	0.25	100	1.2 U	1.2 U	1.3 U
cis-1,3-Dichloropropene	NS	NS	1.2 U	1.2 U	1.3 U
Cyclohexane	NS	NS	1.2 U	1.2 U	1.3 U
Dichlorobromomethane	NS	NS	1.2 U	1.2 U	1.3 U
Dichlorodifluoromethane	NS	NS	1.2 U	1.2 U	1.3 U
Ethylbenzene	1	41	1.2 U	1.2 U	1.3 U
Ethylene Dibromide	NS	NS	1.2 U	1.2 U	1.3 U
Isopropylbenzene	NS	NS	1.2 U	1.2 U	1.3 U
Methyl acetate	NS	NS	5.8 U	5.8 U	6.5 U
Methyl tert-butyl ether	0.93	100	1.2 U *	1.2 U *	1.3 U *
Methylcyclohexane	NS	NS	1.2 U	1.2 U	1.3 U
Methylene Chloride	0.05	100	0.54 J	0.96 J	1.3 U
m-Xylene & p-Xylene	NS	NS	1.2 U	1.2 U	1.3 U
o-Xylene	NS	NS	1.2 U	1.2 U	1.3 U
Styrene	NS	NS	1.2 U	1.2 U	1.3 U
Tetrachloroethene	1.3	19	0.51 J	1.2 U	0.34 J
Toluene	0.7	100	1.2 U	1.2 U	1.3 U
trans-1,2-Dichloroethene	0.19	100	1.2 U	1.2 U	1.3 U
trans-1,3-Dichloropropene	NS	NS	1.2 U	1.2 U	1.3 U
Trichloroethene	0.47	21	1.2 U	1.2 U	1.3 U
Trichlorofluoromethane	NS	NS	1.2 U	1.2 U	1.3 U
Vinyl chloride	0.02	0.9	1.2 U	1.2 U	1.3 U
Xylenes, Total	0.26	100	1.2 U	1.2 U	1.3 U
Total Conc	NS	NS	1.05	0.96	0.34

Table 1
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Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

Client ID	NYSDEC	NYSDEC	SB-02_10-12_20190710	SB-03_0-2_20190712	SB-04_0-2_20190710
Lab Sample ID	Part 375	Part 375	460-186281-4	460-186524-1	460-186281-7
Date Sampled	Unrestricted	Restricted	07/10/2019	07/12/2019	07/10/2019
Dilution	SCO	Residential	1	1	1
Analyte	mg/kg	SCO	mg/kg		
1,1,1-Trichloroethane	0.68	100	1.2 U *	0.0012 U	1.2 U
1,1,2,2-Tetrachloroethane	NS	NS	1.2 U	0.0012 U	1.2 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	1.2 U	0.0012 U	1.2 U
1,1,2-Trichloroethane	NS	NS	1.2 U	0.0012 U	1.2 U
1,1-Dichloroethane	0.27	26	1.2 U	0.0012 U	1.2 U
1,1-Dichloroethene	0.33	100	1.2 U	0.0012 U	1.2 U
1,2,3-Trichlorobenzene	NS	NS	1.2 U	0.0012 U	1.2 U
1,2,4-Trichlorobenzene	NS	NS	1.2 U	0.0012 U	1.2 U
1,2-Dibromo-3-Chloropropane	NS	NS	1.2 U	0.0012 U	1.2 U
1,2-Dichlorobenzene	1.1	100	1.2 U	0.0012 U	1.2 U
1,2-Dichloroethane	0.02	3.1	1.2 U	0.0012 U	1.2 U
1,2-Dichloropropane	NS	NS	1.2 U	0.0012 U	1.2 U
1,3-Dichlorobenzene	2.4	49	1.2 U	0.0012 U	1.2 U
1,4-Dichlorobenzene	1.8	13	1.2 U	0.0012 U	1.2 U
1,4-Dioxane	0.1	13	24 U	0.023 U	23 U
2-Butanone (MEK)	0.12	100	6.0 U	0.0059 U	5.8 U
2-Hexanone	NS	NS	6.0 U	0.0059 U	5.8 U
4-Methyl-2-pentanone (MIBK)	NS	NS	6.0 U	0.0059 U	5.8 U
Acetone	0.05	100	33	0.0070 U	7.0 U
Benzene	0.06	4.8	1.2 U	0.0012 U	1.2 U
Bromoform	NS	NS	1.2 U	0.0012 U	1.2 U
Bromomethane	NS	NS	1.2 U	0.0012 U	1.2 U
Carbon disulfide	NS	NS	1.2 U	0.0012 U	1.2 U
Carbon tetrachloride	0.76	2.4	1.2 U	0.0012 U	1.2 U
Chlorobenzene	1.1	100	1.2 U	0.0012 U	1.2 U
Chlorobromomethane	NS	NS	1.2 U	0.0012 U	1.2 U
Chlorodibromomethane	NS	NS	1.2 U	0.0012 U	1.2 U
Chloroethane	NS	NS	1.2 U	0.0012 U	1.2 U
Chloroform	0.37	49	1.2 U	0.0012 U	1.2 U
Chloromethane	NS	NS	1.2 U	0.0012 U	1.2 U
cis-1,2-Dichloroethene	0.25	100	2.5	0.0012 U	1.2 U
cis-1,3-Dichloropropene	NS	NS	1.2 U	0.0012 U	1.2 U
Cyclohexane	NS	NS	1.2 U	0.0012 U	1.2 U
Dichlorobromomethane	NS	NS	1.2 U	0.0012 U	1.2 U
Dichlorodifluoromethane	NS	NS	1.2 U	0.0012 U	1.2 U
Ethylbenzene	1	41	1.2 U	0.0012 U	1.2 U
Ethylene Dibromide	NS	NS	1.2 U	0.0012 U	1.2 U
Isopropylbenzene	NS	NS	1.2 U	0.0012 U	1.2 U
Methyl acetate	NS	NS	6.0 U	0.0059 U	5.8 U
Methyl tert-butyl ether	0.93	100	1.2 U *	0.0012 U	1.2 U
Methylcyclohexane	NS	NS	1.2 U	0.0012 U	1.2 U
Methylene Chloride	0.05	100	1.2 U	0.00092 J	1.2 U
m-Xylene & p-Xylene	NS	NS	1.2 U	0.0012 U	1.2 U
o-Xylene	NS	NS	1.2 U	0.0012 U	1.2 U
Styrene	NS	NS	1.2 U	0.0012 U	1.2 U
Tetrachloroethene	1.3	19	1.2 U	0.0012 U	1.2 U
Toluene	0.7	100	1.2 U	0.0012 U	1.2 U
trans-1,2-Dichloroethene	0.19	100	1.2 U	0.0012 U	1.2 U
trans-1,3-Dichloropropene	NS	NS	1.2 U	0.0012 U	1.2 U
Trichloroethene	0.47	21	1.2 U	0.0012 U	1.2 U
Trichlorofluoromethane	NS	NS	1.2 U	0.0012 U	1.2 U
Vinyl chloride	0.02	0.9	1.2 U	0.0012 U	1.2 U
Xylenes, Total	0.26	100	1.2 U	0.0012 U	1.2 U
Total Conc	NS	NS	35.5	0.00092	0.0

Table 1
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-04_3-5_20190710	SB-05_0-2_20190710	SB-05_10-12_20190710
Lab Sample ID	Unrestricted	Restricted	460-186281-8	460-186281-5	460-186281-6
Date Sampled	SCO	Residential	07/10/2019	07/10/2019	07/10/2019
Dilution		SCO	1	1	1
Analyte	mg/kg	mg/kg			
1,1,1-Trichloroethane	0.68	100	1.3 U	1.2 U *	0.97 U *
1,1,2,2-Tetrachloroethane	NS	NS	1.3 U	1.2 U	0.97 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	1.3 U	1.2 U	0.97 U
1,1,2-Trichloroethane	NS	NS	1.3 U	1.2 U	0.97 U
1,1-Dichloroethane	0.27	26	1.3 U	1.2 U	0.97 U
1,1-Dichloroethene	0.33	100	1.3 U	1.2 U	0.97 U
1,2,3-Trichlorobenzene	NS	NS	1.3 U	1.2 U	0.97 U
1,2,4-Trichlorobenzene	NS	NS	1.3 U	1.2 U	0.97 U
1,2-Dibromo-3-Chloropropane	NS	NS	1.3 U	1.2 U	0.97 U
1,2-Dichlorobenzene	1.1	100	1.3 U	1.2 U	0.97 U
1,2-Dichloroethane	0.02	3.1	1.3 U	1.2 U	0.97 U
1,2-Dichloropropane	NS	NS	1.3 U	1.2 U	0.97 U
1,3-Dichlorobenzene	2.4	49	1.3 U	1.2 U	0.97 U
1,4-Dichlorobenzene	1.8	13	1.3 U	1.2 U	0.97 U
1,4-Dioxane	0.1	13	27 U	25 U	19 U
2-Butanone (MEK)	0.12	100	6.7 U	6.2 U	4.9 U
2-Hexanone	NS	NS	6.7 U	6.2 U	4.9 U
4-Methyl-2-pentanone (MIBK)	NS	NS	6.7 U	6.2 U	4.9 U
Acetone	0.05	100	8.4	7.4 U	5.8 U
Benzene	0.06	4.8	1.3 U	1.2 U	0.97 U
Bromoform	NS	NS	1.3 U	1.2 U	0.97 U
Bromomethane	NS	NS	1.3 U	1.2 U	0.97 U
Carbon disulfide	NS	NS	1.3 U	1.2 U	0.97 U
Carbon tetrachloride	0.76	2.4	1.3 U	1.2 U	0.97 U
Chlorobenzene	1.1	100	1.3 U	1.2 U	0.97 U
Chlorobromomethane	NS	NS	1.3 U	1.2 U	0.97 U
Chlorodibromomethane	NS	NS	1.3 U	1.2 U	0.97 U
Chloroethane	NS	NS	1.3 U	1.2 U	0.97 U
Chloroform	0.37	49	1.3 U	1.2 U	0.97 U
Chloromethane	NS	NS	1.3 U	1.2 U	0.97 U
cis-1,2-Dichloroethene	0.25	100	1.3 U	1.2 U	0.97 U
cis-1,3-Dichloropropene	NS	NS	1.3 U	1.2 U	0.97 U
Cyclohexane	NS	NS	1.3 U	1.2 U	0.97 U
Dichlorobromomethane	NS	NS	1.3 U	1.2 U	0.97 U
Dichlorodifluoromethane	NS	NS	1.3 U	1.2 U	0.97 U
Ethylbenzene	1	41	1.3 U	0.91 J	0.97 U
Ethylene Dibromide	NS	NS	1.3 U	1.2 U	0.97 U
Isopropylbenzene	NS	NS	1.3 U	1.2 U	0.97 U
Methyl acetate	NS	NS	6.7 U	6.2 U	4.9 U
Methyl tert-butyl ether	0.93	100	1.3 U	1.2 U *	0.97 U *
Methylcyclohexane	NS	NS	1.3 U	1.2 U	0.97 U
Methylene Chloride	0.05	100	1.3 U	1.2 U	0.97 U
m-Xylene & p-Xylene	NS	NS	1.3 U	4.4	0.97 U
o-Xylene	NS	NS	1.3 U	2.1	0.97 U
Styrene	NS	NS	1.3 U	1.2 U	0.97 U
Tetrachloroethene	1.3	19	1.3 U	1.2 U	0.16 J
Toluene	0.7	100	1.3 U	18	0.97 U
trans-1,2-Dichloroethene	0.19	100	1.3 U	1.2 U	0.97 U
trans-1,3-Dichloropropene	NS	NS	1.3 U	1.2 U	0.97 U
Trichloroethene	0.47	21	1.3 U	1.2 U	0.97 U
Trichlorofluoromethane	NS	NS	1.3 U	1.2 U	0.97 U
Vinyl chloride	0.02	0.9	1.3 U	1.2 U	0.97 U
Xylenes, Total	0.26	100	1.3 U	6.5	0.97 U
Total Conc	NS	NS	8.4	25.41	0.16

Table 1
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Volatile Organic Compounds (VOCs)

Client ID	NYSDEC	NYSDEC	SB-06_0-2_20190712	SB-06_5-7_20190712
Lab Sample ID	Part 375	Part 375	460-186524-2	460-186524-3
Date Sampled	Unrestricted	Restricted	07/12/2019	07/12/2019
Dilution	SCO	Residential	1	1
Analyte	mg/kg	SCO	mg/kg	
1,1,1-Trichloroethane	0.68	100	0.0012 U	0.0015 U
1,1,2,2-Tetrachloroethane	NS	NS	0.0012 U	0.0015 U
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	NS	0.0012 U	0.0015 U
1,1,2-Trichloroethane	NS	NS	0.0012 U	0.0015 U
1,1-Dichloroethane	0.27	26	0.0012 U	0.0015 U
1,1-Dichloroethene	0.33	100	0.0012 U	0.0015 U
1,2,3-Trichlorobenzene	NS	NS	0.0012 U	0.0015 U
1,2,4-Trichlorobenzene	NS	NS	0.0012 U	0.0015 U
1,2-Dibromo-3-Chloropropane	NS	NS	0.0012 U	0.0015 U
1,2-Dichlorobenzene	1.1	100	0.0012 U	0.0015 U
1,2-Dichloroethane	0.02	3.1	0.0012 U	0.0015 U
1,2-Dichloropropane	NS	NS	0.0012 U	0.0015 U
1,3-Dichlorobenzene	2.4	49	0.0012 U	0.0015 U
1,4-Dichlorobenzene	1.8	13	0.0012 U	0.0015 U
1,4-Dioxane	0.1	13	0.023 U	0.030 U
2-Butanone (MEK)	0.12	100	0.0058 U	0.0045 J
2-Hexanone	NS	NS	0.0058 U	0.0074 U
4-Methyl-2-pentanone (MIBK)	NS	NS	0.0058 U	0.0074 U
Acetone	0.05	100	0.0070 U	0.027
Benzene	0.06	4.8	0.0012 U	0.0015 U
Bromoform	NS	NS	0.0012 U	0.0015 U
Bromomethane	NS	NS	0.0012 U	0.0015 U
Carbon disulfide	NS	NS	0.0012 U	0.0015 U
Carbon tetrachloride	0.76	2.4	0.0012 U	0.0015 U
Chlorobenzene	1.1	100	0.0012 U	0.0015 U
Chlorobromomethane	NS	NS	0.0012 U	0.0015 U
Chlorodibromomethane	NS	NS	0.0012 U	0.0015 U
Chloroethane	NS	NS	0.0012 U	0.0015 U
Chloroform	0.37	49	0.0012 U	0.0015 U
Chloromethane	NS	NS	0.0012 U	0.0015 U
cis-1,2-Dichloroethene	0.25	100	0.0012 U	0.0015 U
cis-1,3-Dichloropropene	NS	NS	0.0012 U	0.0015 U
Cyclohexane	NS	NS	0.0012 U	0.0015 U
Dichlorobromomethane	NS	NS	0.0012 U	0.0015 U
Dichlorodifluoromethane	NS	NS	0.0012 U	0.0015 U
Ethylbenzene	1	41	0.0012 U	0.0015 U
Ethylene Dibromide	NS	NS	0.0012 U	0.0015 U
Isopropylbenzene	NS	NS	0.0012 U	0.0015 U
Methyl acetate	NS	NS	0.0058 U	0.0074 U
Methyl tert-butyl ether	0.93	100	0.0012 U	0.0015 U
Methylcyclohexane	NS	NS	0.0012 U	0.0015 U
Methylene Chloride	0.05	100	0.0012 U	0.0015 U
m-Xylene & p-Xylene	NS	NS	0.0012 U	0.0010 J
o-Xylene	NS	NS	0.0012 U	0.00054 J
Styrene	NS	NS	0.0012 U	0.0015 U
Tetrachloroethene	1.3	19	0.0012 U	0.0015 U
Toluene	0.7	100	0.0012 U	0.0015 U
trans-1,2-Dichloroethene	0.19	100	0.0012 U	0.0015 U
trans-1,3-Dichloropropene	NS	NS	0.0012 U	0.0015 U
Trichloroethene	0.47	21	0.0012 U	0.0015 U
Trichlorofluoromethane	NS	NS	0.0012 U	0.0015 U
Vinyl chloride	0.02	0.9	0.0012 U	0.0015 U
Xylenes, Total	0.26	100	0.0012 U	0.00154 J
Total Conc	NS	NS	0.0	0.03304

Table 2
521 East Tremont Avenue

Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-01_0-2_20190710 460-186281-1	SB-01_10-12_20190710 460-186281-2	SB-02_0-2_20190710 460-186281-3	SB-02_10-12_20190710 460-186281-4
Lab Sample ID	Unrestricted SCO	Restricted Residential SCO	07/10/2019 1	07/10/2019 1	07/10/2019 1	07/10/2019 1
Date Sampled						
Dilution						
Analyte	mg/kg	mg/kg				
1,1'-Biphenyl	NS	NS	0.38 U	0.37 U	0.036 J	0.41 U
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2,2'-oxybis[1-chloropropane]	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2,4,6-Trichlorophenol	NS	NS	0.15 U	0.15 U	0.15 U	0.16 U
2,4-Dichlorophenol	NS	NS	0.15 U	0.15 U	0.15 U	0.16 U
2,4-Dimethylphenol	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2,4-Dinitrophenol	NS	NS	0.30 U	0.30 U	0.30 U	0.33 U
2,4-Dinitrotoluene	NS	NS	0.077 U	0.076 U	0.076 U	0.083 U
2,6-Dinitrotoluene	NS	NS	0.077 U	0.076 U	0.076 U	0.083 U
2-Chloronaphthalene	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2-Chlorophenol	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2-Methylnaphthalene	NS	NS	0.022 J	0.37 U	0.084 J	0.41 U
2-Methylphenol	0.33	100	0.38 U	0.37 U	0.37 U	0.41 U
2-Nitroaniline	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
2-Nitrophenol	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
3,3'-Dichlorobenzidine	NS	NS	0.15 U	0.15 U	0.15 U	0.16 U
3-Nitroaniline	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
4,6-Dinitro-2-methylphenol	NS	NS	0.30 U	0.30 U	0.30 U	0.33 U
4-Bromophenyl phenyl ether	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
4-Chloro-3-methylphenol	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
4-Chloroaniline	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
4-Chlorophenyl phenyl ether	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
4-Methylphenol	0.33	100	0.38 U	0.37 U	0.015 J	0.41 U
4-Nitroaniline	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
4-Nitrophenol	NS	NS	0.77 U	0.76 U	0.76 U	0.83 U
Acenaphthene	20	100	0.040 J	0.37 U	0.056 J	0.41 U
Acenaphthylene	100	100	0.23 J	0.37 U	0.36 J	0.41 U
Acetophenone	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Anthracene	100	100	0.30 J	0.37 U	0.40	0.41 U
Atrazine	NS	NS	0.15 U *	0.15 U *	0.15 U *	0.16 U *
Benzaldehyde	NS	NS	0.38 U *	0.37 U *	0.37 U *	0.41 U *
Benzo[a]anthracene	1	1	2.5	0.088	2.2	0.041 U
Benzo[a]pyrene	1	1	2.1	0.067	2.1	0.041 U
Benzo[b]fluoranthene	1	1	3.0	0.088	3.2	0.041 U
Benzo[g,h,i]perylene	100	100	1.2	0.045 J	1.5	0.41 U
Benzo[k]fluoranthene	0.8	3.9	1.1	0.035 J	1.3	0.041 U
Bis(2-chloroethoxy)methane	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Bis(2-chloroethyl)ether	NS	NS	0.038 U	0.037 U	0.037 U	0.041 U
Bis(2-ethylhexyl) phthalate	NS	NS	0.68	0.055 J	0.13 J	0.41 U
Butyl benzyl phthalate	NS	NS	0.037 J	0.37 U	0.37 U	0.41 U
Caprolactam	NS	NS	0.38 U *	0.37 U *	0.37 U *	0.41 U *
Carbazole	NS	NS	0.14 J	0.014 J	0.50	0.41 U
Chrysene	1	3.9	2.5	0.092 J	2.6	0.41 U
Dibenz(a,h)anthracene	0.33	0.33	0.44	0.037 U	0.41	0.041 U
Dibenzofuran	7	59	0.034 J	0.37 U	0.35 J	0.41 U
Diethyl phthalate	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Dimethyl phthalate	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Di-n-butyl phthalate	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Di-n-octyl phthalate	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Fluoranthene	100	100	3.4	0.17 J	5.2	0.41 U
Fluorene	30	100	0.061 J	0.014 J	0.20 J	0.41 U
Hexachlorobenzene	0.33	1.2	0.038 U	0.037 U	0.037 U	0.041 U
Hexachlorobutadiene	NS	NS	0.077 U	0.076 U	0.076 U	0.083 U
Hexachlorocyclopentadiene	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Hexachloroethane	NS	NS	0.038 U	0.037 U	0.037 U	0.041 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	1.4	0.044	1.7	0.041 U
Isophorone	NS	NS	0.15 U	0.15 U	0.15 U	0.16 U
Naphthalene	12	100	0.067 J	0.37 U	0.14 J	0.41 U
Nitrobenzene	NS	NS	0.038 U	0.037 U	0.037 U	0.041 U
N-Nitrosodi-n-propylamine	NS	NS	0.038 U	0.037 U	0.037 U	0.041 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	0.37 U	0.37 U	0.41 U
Pentachlorophenol	0.8	6.7	0.30 U	0.30 U	0.30 U	0.33 U
Phenanthrene	100	100	1.3	0.16 J	5.5	0.41 U
Phenol	0.33	100	0.38 U	0.37 U	0.37 U	0.41 U
Pyrene	100	100	4.1	0.19 J	5.1	0.41 U
Total Conc	NS	NS	24.651	1.062	33.081	0.0

Table 2
521 East Tremont Avenue

Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-03_0-2_20190712 460-186524-1 07/12/2019 1	SB-04_0-2_20190710 460-186281-7 07/10/2019 1	SB-04_3-5_20190710 460-186281-8 07/10/2019 1	SB-05_0-2_20190710 460-186281-5 07/10/2019 1
Lab Sample ID						
Date Sampled						
Dilution						
Analyte	mg/kg	mg/kg				
1,1'-Biphenyl	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
1,2,4,5-Tetrachlorobenzene	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2,2'-oxybis[1-chloropropane]	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2,4,5-Trichlorophenol	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2,4,6-Trichlorophenol	NS	NS	0.16 U	0.15 U	0.14 U	0.17 U
2,4-Dichlorophenol	NS	NS	0.16 U	0.15 U	0.14 U	0.17 U
2,4-Dimethylphenol	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2,4-Dinitrophenol	NS	NS	0.31 U	0.29 U	0.29 U	0.33 U
2,4-Dinitrotoluene	NS	NS	0.078 U	0.073 U	0.072 U	0.083 U
2,6-Dinitrotoluene	NS	NS	0.078 U	0.073 U	0.072 U	0.083 U
2-Chloronaphthalene	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2-Chlorophenol	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2-Methylnaphthalene	NS	NS	0.39 U	0.034 J	0.043 J	0.41 U
2-Methylphenol	0.33	100	0.39 U	0.36 U	0.36 U	0.41 U
2-Nitroaniline	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
2-Nitrophenol	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
3,3'-Dichlorobenzidine	NS	NS	0.16 U	0.15 U	0.14 U	0.17 U
3-Nitroaniline	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
4,6-Dinitro-2-methylphenol	NS	NS	0.31 U	0.29 U	0.29 U	0.33 U
4-Bromophenyl phenyl ether	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
4-Chloro-3-methylphenol	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
4-Chloroaniline	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
4-Chlorophenyl phenyl ether	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
4-Methylphenol	0.33	100	0.39 U	0.012 J	0.023 J	0.41 U
4-Nitroaniline	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
4-Nitrophenol	NS	NS	0.78 U	0.73 U	0.72 U	0.83 U
Acenaphthene	20	100	0.39 U	0.081 J	0.067 J	0.41 U
Acenaphthylene	100	100	0.39 U	0.059 J	0.32 J	0.011 J
Acetophenone	NS	NS	0.39 U	0.025 J	0.015 J	0.41 U
Anthracene	100	100	0.39 U	0.25 J	0.28 J	0.41 U
Atrazine	NS	NS	0.16 U	0.15 U *	0.14 U *	0.17 U *
Benzaldehyde	NS	NS	0.39 U	0.030 J *	0.037 J *	0.41 U *
Benzo[a]anthracene	1	1	0.024 J	1.3	2.9	0.14
Benzo[a]pyrene	1	1	0.015 J	1.2	3.5	0.13
Benzo[b]fluoranthene	1	1	0.018 J	1.6	5.1	0.17
Benzo[g,h,i]perylene	100	100	0.39 U	0.84	2.1	0.094 J
Benzo[k]fluoranthene	0.8	3.9	0.0081 J	0.61	2.0	0.059
Bis(2-chloroethoxy)methane	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
Bis(2-chloroethyl)ether	NS	NS	0.039 U	0.036 U	0.036 U	0.041 U
Bis(2-ethylhexyl) phthalate	NS	NS	0.39 U	0.67	0.44	0.41 U
Butyl benzyl phthalate	NS	NS	0.39 U	0.14 J	0.053 J	0.41 U
Caprolactam	NS	NS	0.39 U	0.36 U *	0.36 U *	0.41 U *
Carbazole	NS	NS	0.39 U	0.12 J	0.30 J	0.017 J
Chrysene	1	3.9	0.021 J	1.4	3.8	0.14 J
Dibenz(a,h)anthracene	0.33	0.33	0.039 U	0.24	0.71	0.035 J
Dibenzofuran	7	59	0.39 U	0.056 J	0.083 J	0.41 U
Diethyl phthalate	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
Dimethyl phthalate	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
Di-n-butyl phthalate	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
Di-n-octyl phthalate	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
Fluoranthene	100	100	0.047 J	1.9	4.1	0.19 J
Fluorene	30	100	0.39 U	0.095 J	0.11 J	0.011 J
Hexachlorobenzene	0.33	1.2	0.039 U	0.036 U	0.036 U	0.041 U
Hexachlorobutadiene	NS	NS	0.078 U	0.073 U	0.072 U	0.083 U
Hexachlorocyclopentadiene	NS	NS	0.39 U *	0.36 U	0.36 U	0.41 U
Hexachloroethane	NS	NS	0.039 U	0.036 U	0.036 U	0.041 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.039 U	0.89	2.6	0.099
Isophorone	NS	NS	0.16 U	0.15 U	0.14 U	0.17 U
Naphthalene	12	100	0.39 U	0.074 J	0.11 J	0.019 J
Nitrobenzene	NS	NS	0.039 U	0.036 U	0.036 U	0.041 U
N-Nitrosodi-n-propylamine	NS	NS	0.039 U	0.036 U	0.036 U	0.041 U
N-Nitrosodiphenylamine	NS	NS	0.39 U	0.36 U	0.36 U	0.41 U
Pentachlorophenol	0.8	6.7	0.31 U	0.29 U	0.29 U	0.33 U
Phenanthrene	100	100	0.055 J	1.3	2.2	0.15 J
Phenol	0.33	100	0.39 U	0.36 U	0.36 U	0.41 U
Pyrene	100	100	0.042 J	2.8	5.7	0.24 J
Total Conc	NS	NS	0.2301	15.726	36.591	1.505

Table 2
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Semivolatile Organic Compounds (SVOCs)

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-05_10-12_20190710 460-186281-6 07/10/2019 1	SB-06_0-2_20190712 460-186524-2 07/12/2019 1	SB-06_5-7_20190712 460-186524-3 07/12/2019 1
Lab Sample ID					
Date Sampled					
Dilution					
Analyte	mg/kg	mg/kg			
1,1'-Biphenyl	NS	NS	0.38 U	0.37 U	0.029 J
1,2,4,5-Tetrachlorobenzene	NS	NS	0.38 U	0.37 U	0.41 U
2,2'-oxybis[1-chloropropane]	NS	NS	0.38 U	0.37 U	0.41 U
2,3,4,6-Tetrachlorophenol	NS	NS	0.38 U	0.37 U	0.41 U
2,4,5-Trichlorophenol	NS	NS	0.38 U	0.37 U	0.41 U
2,4,6-Trichlorophenol	NS	NS	0.15 U	0.15 U	0.17 U
2,4-Dichlorophenol	NS	NS	0.15 U	0.15 U	0.17 U
2,4-Dimethylphenol	NS	NS	0.38 U	0.37 U	0.41 U
2,4-Dinitrophenol	NS	NS	0.31 U	0.30 U	0.33 U
2,4-Dinitrotoluene	NS	NS	0.077 U	0.075 U	0.084 U
2,6-Dinitrotoluene	NS	NS	0.077 U	0.075 U	0.084 U
2-Chloronaphthalene	NS	NS	0.38 U	0.37 U	0.41 U
2-Chlorophenol	NS	NS	0.38 U	0.37 U	0.41 U
2-Methylnaphthalene	NS	NS	0.38 U	0.049 J	0.091 J
2-Methylphenol	0.33	100	0.38 U	0.37 U	0.41 U
2-Nitroaniline	NS	NS	0.38 U	0.37 U	0.41 U
2-Nitrophenol	NS	NS	0.38 U	0.37 U	0.41 U
3,3'-Dichlorobenzidine	NS	NS	0.15 U	0.15 U	0.17 U
3-Nitroaniline	NS	NS	0.38 U	0.37 U	0.41 U
4,6-Dinitro-2-methylphenol	NS	NS	0.31 U	0.30 U	0.33 U
4-Bromophenyl phenyl ether	NS	NS	0.38 U	0.37 U	0.41 U
4-Chloro-3-methylphenol	NS	NS	0.38 U	0.37 U	0.41 U
4-Chloroaniline	NS	NS	0.38 U	0.37 U	0.41 U
4-Chlorophenyl phenyl ether	NS	NS	0.38 U	0.37 U	0.41 U
4-Methylphenol	0.33	100	0.38 U	0.37 U	0.034 J
4-Nitroaniline	NS	NS	0.38 U	0.37 U	0.41 U
4-Nitrophenol	NS	NS	0.77 U	0.75 U	0.84 U
Acenaphthene	20	100	0.38 U	0.064 J	0.14 J
Acenaphthylene	100	100	0.38 U	0.092 J	0.54
Acetophenone	NS	NS	0.38 U	0.37 U	0.41 U
Anthracene	100	100	0.38 U	0.24 J	0.70
Atrazine	NS	NS	0.15 U *	0.15 U	0.17 U
Benzaldehyde	NS	NS	0.38 U *	0.37 U	0.41 U
Benzo[a]anthracene	1	1	0.092	0.93	2.8
Benzo[a]pyrene	1	1	0.072	0.90	2.7
Benzo[b]fluoranthene	1	1	0.084	1.3	3.6
Benzo[g,h,i]perylene	100	100	0.034 J	0.57	1.8
Benzo[k]fluoranthene	0.8	3.9	0.038	0.41	1.3
Bis(2-chloroethoxy)methane	NS	NS	0.38 U	0.37 U	0.41 U
Bis(2-chloroethyl)ether	NS	NS	0.038 U	0.037 U	0.041 U
Bis(2-ethylhexyl) phthalate	NS	NS	0.037 J	0.071 J	0.10 J
Butyl benzyl phthalate	NS	NS	0.38 U	0.062 J	0.027 J
Caprolactam	NS	NS	0.38 U *	0.37 U	0.41 U
Carbazole	NS	NS	0.015 J	0.14 J	0.35 J
Chrysene	1	3.9	0.089 J	0.93	2.8
Dibenz(a,h)anthracene	0.33	0.33	0.038 U	0.17	0.40
Dibenzofuran	7	59	0.38 U	0.064 J	0.23 J
Diethyl phthalate	NS	NS	0.38 U	0.37 U	0.41 U
Dimethyl phthalate	NS	NS	0.38 U	0.37 U	0.41 U
Di-n-butyl phthalate	NS	NS	0.38 U	0.37 U	0.41 U
Di-n-octyl phthalate	NS	NS	0.38 U	0.37 U	0.41 U
Fluoranthene	100	100	0.14 J	1.7	6.4
Fluorene	30	100	0.014 J	0.099 J	0.15 J
Hexachlorobenzene	0.33	1.2	0.038 U	0.037 U	0.041 U
Hexachlorobutadiene	NS	NS	0.077 U	0.075 U	0.084 U
Hexachlorocyclopentadiene	NS	NS	0.38 U	0.37 U *	0.41 U *
Hexachloroethane	NS	NS	0.038 U	0.037 U	0.041 U
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.045	0.66	2.1
Isophorone	NS	NS	0.15 U	0.15 U	0.17 U
Naphthalene	12	100	0.38 U	0.092 J	0.21 J
Nitrobenzene	NS	NS	0.038 U	0.037 U	0.041 U
N-Nitrosodi-n-propylamine	NS	NS	0.038 U	0.037 U	0.041 U
N-Nitrosodiphenylamine	NS	NS	0.38 U	0.37 U	0.41 U
Pentachlorophenol	0.8	6.7	0.31 U	0.30 U	0.33 U
Phenanthrene	100	100	0.13 J	1.1	4.3
Phenol	0.33	100	0.38 U	0.37 U	0.41 U
Pyrene	100	100	0.17 J	1.6	5.7
Total Conc	NS	NS	0.96	11.243	36.501

Table 3
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Pesticides

Client ID	NYSDEC	NYSDEC	SB-01_0-2_20190710	SB-01_10-12_20190710	SB-02_0-2_20190710	SB-02_10-12_20190710	SB-03_0-2_20190712	SB-04_0-2_20190710
Lab Sample ID	Part 375	Part 375	460-186281-1	460-186281-2	460-186281-3	460-186281-4	460-186524-1	460-186281-7
Date Sampled	Unrestricted	Restricted	07/10/2019	07/10/2019	07/10/2019	07/10/2019	07/12/2019	07/10/2019
Dilution	SCO	Residential	1	1	1	1	1	1
Analyte	mg/kg	SCO	mg/kg					
4,4'-DDD	0.0033	13	0.018	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0032 J
4,4'-DDE	0.0033	8.9	0.052	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.015
4,4'-DDT	0.0033	7.9	0.14	0.0076 U	0.23	0.0083 U	0.0078 U	0.012
Aldrin	0.005	0.097	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
alpha-BHC	0.02	0.48	0.0023 U	0.0023 U	0.0023 U	0.0025 U	0.0023 U	0.0022 U
beta-BHC	0.036	0.36	0.0023 U	0.0023 U	0.0023 U	0.0025 U	0.0023 U	0.0022 U
Chlordane (n.o.s.)	NS	NS	0.18	0.076 U	0.076 U	0.083 U	0.078 U	0.10
cis-Chlordane	0.094	4.2	0.028 p	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.018
delta-BHC	0.04	100	0.0023 U	0.0023 U	0.0023 U	0.0025 U	0.0023 U	0.0022 U
Dieldrin	0.005	0.2	0.019	0.0023 U	0.0023 U	0.0025 U	0.0023 U	0.0025 p
Endosulfan I	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Endosulfan II	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Endosulfan sulfate	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Endosulfans, ABS	2.4	24	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Endrin	0.014	11	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Endrin aldehyde	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Endrin ketone	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
gamma-BHC (Lindane)	0.1	1.3	0.0023 U	0.0023 U	0.0023 U	0.0025 U	0.0023 U	0.0022 U
Heptachlor	0.042	2.1	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Heptachlor epoxide	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Methoxychlor	NS	NS	0.0076 U	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.0073 U
Toxaphene	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
trans-Chlordane	NS	NS	0.029	0.0076 U	0.0076 U	0.0083 U	0.0078 U	0.011 p

Table 3
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Pesticides

Client ID	NYSDEC	NYSDEC	SB-04_3-5_20190710	SB-05_0-2_20190710	SB-05_10-12_20190710	SB-06_0-2_20190712	SB-06_5-7_20190712
Lab Sample ID	Part 375	Part 375	460-186281-8	460-186281-5	460-186281-6	460-186524-2	460-186524-3
Date Sampled	Unrestricted	Restricted	07/10/2019	07/10/2019	07/10/2019	07/12/2019	07/12/2019
Dilution	SCO	Residential	1	1	1	1	1
Analyte	mg/kg	SCO	mg/kg				
4,4'-DDD	0.0033	13	0.0072 U	0.0083 U	0.0076 U	0.0023 J p	0.0020 J p
4,4'-DDE	0.0033	8.9	0.0072 U	0.0083 U	0.0076 U	0.018	0.031 p
4,4'-DDT	0.0033	7.9	0.0077	0.0083 U	0.0076 U	0.021	0.010 p
Aldrin	0.005	0.097	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
alpha-BHC	0.02	0.48	0.0022 U	0.0025 U	0.0023 U	0.0022 U	0.0025 U
beta-BHC	0.036	0.36	0.0022 U	0.0025 U	0.0023 U	0.0022 U	0.0025 U
Chlordane (n.o.s.)	NS	NS	0.072 U	0.083 U	0.076 U	0.14	0.46
cis-Chlordane	0.094	4.2	0.0072 U	0.0083 U	0.0076 U	0.020	0.063
delta-BHC	0.04	100	0.0022 U	0.0025 U	0.0023 U	0.0022 U	0.0025 U
Dieldrin	0.005	0.2	0.0022 U	0.0025 U	0.0023 U	0.012	0.048
Endosulfan I	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Endosulfan II	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Endosulfan sulfate	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Endosulfans, ABS	2.4	24	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Endrin	0.014	11	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Endrin aldehyde	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Endrin ketone	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
gamma-BHC (Lindane)	0.1	1.3	0.0022 U	0.0025 U	0.0023 U	0.0022 U	0.0025 U
Heptachlor	0.042	2.1	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Heptachlor epoxide	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Methoxychlor	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0075 U	0.0084 U
Toxaphene	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
trans-Chlordane	NS	NS	0.0072 U	0.0083 U	0.0076 U	0.0096 p	0.030 p

Table 4
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-01_0-2_20190710 460-186281-1 07/10/2019 1	SB-01_10-12_20190710 460-186281-2 07/10/2019 1	SB-02_0-2_20190710 460-186281-3 07/10/2019 1	SB-02_10-12_20190710 460-186281-4 07/10/2019 1	SB-03_0-2_20190712 460-186524-1 07/12/2019 1	SB-04_0-2_20190710 460-186281-7 07/10/2019 1
Lab Sample ID	mg/kg	mg/kg						
Date Sampled								
Dilution								
Analyte								
Aroclor 1016	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1221	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1232	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1242	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1248	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1254	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1260	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1262	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Aroclor 1268	NS	NS	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U
Polychlorinated biphenyls, Total	0.1	1	0.076 U	0.076 U	0.076 U	0.083 U	0.078 U	0.073 U

Table 4
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Polychlorinated Biphenyls (PCBs)

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-04_3-5_20190710	SB-05_0-2_20190710	SB-05_10-12_20190710	SB-06_0-2_20190712	SB-06_5-7_20190712
Lab Sample ID	Unrestricted	Restricted	460-186281-8	460-186281-5	460-186281-6	460-186524-2	460-186524-3
Date Sampled	SCO	Residential	07/10/2019	07/10/2019	07/10/2019	07/12/2019	07/12/2019
Dilution	SCO	SCO	1	1	1	1	1
Analyte	mg/kg	mg/kg					
Aroclor 1016	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1221	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1232	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1242	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1248	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1254	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1260	NS	NS	0.072 U	0.062 J	0.076 U	0.075 U	0.078 J
Aroclor 1262	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Aroclor 1268	NS	NS	0.072 U	0.083 U	0.076 U	0.075 U	0.084 U
Polychlorinated biphenyls, Total	0.1	1	0.072 U	0.062 J	0.076 U	0.075 U	0.078 J

Table 5
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Metals

Client ID	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential SCO	SB-01_0-2_20190710 460-186281-1 07/10/2019 1	SB-01_0-2_20190710 460-186281-1 07/10/2019 20	SB-01_10-12_20190710 460-186281-2 07/10/2019 1	SB-01_10-12_20190710 460-186281-2 07/10/2019 20	SB-02_0-2_20190710 460-186281-3 07/10/2019 1	SB-02_0-2_20190710 460-186281-3 07/10/2019 20
Analyte	mg/kg	mg/kg						
Aluminum	NS	NS	NR	14,700	NR	6,870	NR	6,870
Antimony	NS	NS	NR	1.1 U	NR	1 U	NR	1.1 U
Arsenic	13	16	NR	2.2	NR	4	NR	4.8
Barium	350	400	NR	79.1	NR	1,410	NR	784
Beryllium	7.2	72	NR	0.7	NR	0.3 J	NR	0.2 J
Cadmium	2.5	4.3	NR	0.75 J	NR	0.64 J	NR	0.6 J
Calcium	NS	NS	NR	53,300	NR	38,800	NR	48,200
Chromium, Total	NS	NS	NR	23.4	NR	12.9	NR	15.5
Chromium, Hexavalent	1	110	2.3 U	NA	2.3 U	NA	2.3 U	NA
Cobalt	NS	NS	NR	14.1	NR	4.4	NR	4.6
Copper	50	270	NR	14.5	NR	18.8	NR	144
Iron	NS	NS	NR	23,100	NR	9,590	NR	9,520
Lead	63	400	NR	12.2	NR	214	NR	172
Magnesium	NS	NS	NR	23,300	NR	3,860	NR	5,480
Manganese	1,600	2,000	NR	1,790	NR	171	NR	184
Mercury	0.18	0.81	0.20	NA	0.049	NA	0.19	NA
Nickel	30	310	NR	14.4	NR	9.9	NR	10
Potassium	NS	NS	NR	1,420	NR	1,170	NR	1,310
Selenium	3.9	180	NR	5.4 U	NR	5.2 U	NR	5.7 U
Silver	2	180	NR	1.1 U	NR	1 U	NR	1.1 U
Sodium	NS	NS	NR	184	NR	652	NR	664
Thallium	NS	NS	NR	0.86	NR	0.42 U	NR	0.45 U
Vanadium	NS	NS	NR	27.3	NR	21.3	NR	21.4
Zinc	109	10,000	NR	47.8	NR	714	NR	499

Table 5
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Metals

Client ID	NYSDEC	NYSDEC	SB-02_10-12_20190710	SB-02_10-12_20190710	SB-03_0-2_20190712	SB-03_0-2_20190712	SB-04_0-2_20190710	SB-04_0-2_20190710
Lab Sample ID	Part 375	Part 375	460-186281-4	460-186281-4	460-186524-1	460-186524-1	460-186281-7	460-186281-7
Date Sampled	Unrestricted	Restricted	07/10/2019	07/10/2019	07/12/2019	07/12/2019	07/10/2019	07/10/2019
Dilution	SCO	Residential	1	20	1	20	1	20
Analyte	mg/kg	SCO	mg/kg					
Aluminum	NS	NS	NR	13,000	NR	7,520	NR	9,310
Antimony	NS	NS	NR	1.1 U	NR	1.1 U	NR	0.31 J
Arsenic	13	16	NR	4	NR	1.9	NR	5.7
Barium	350	400	NR	65.5	NR	36.7	NR	164
Beryllium	7.2	72	NR	0.53	NR	0.51	NR	0.37 J
Cadmium	2.5	4.3	NR	1.1 U	NR	1.1 U	NR	0.71 J
Calcium	NS	NS	NR	3,550	NR	4,870	NR	74,200
Chromium, Total	NS	NS	NR	21.9	NR	20.7	NR	25.9
Chromium, Hexavalent	1	110	2.5 U	NA	2.3 U	NA	3.1	NA
Cobalt	NS	NS	NR	6.5	NR	9.5	NR	6.8
Copper	50	270	NR	7.4	NR	20.8	NR	34.6
Iron	NS	NS	NR	21,200	NR	17,000	NR	16,800
Lead	63	400	NR	10.7	NR	4.6	NR	307
Magnesium	NS	NS	NR	2,680	NR	3,720	NR	29,300
Manganese	1,600	2,000	NR	232	NR	161	NR	292
Mercury	0.18	0.81	0.055	NA	0.022	NA	0.28	NA
Nickel	30	310	NR	12.1	NR	14	NR	18.2
Potassium	NS	NS	NR	668	NR	2,300	NR	3,200
Selenium	3.9	180	NR	5.7 U	NR	5.4 U	NR	0.33 J
Silver	2	180	NR	1.1 U	NR	1.1 U	NR	1.1 U
Sodium	NS	NS	NR	181	NR	310	NR	223
Thallium	NS	NS	NR	0.46 U	NR	0.18 J	NR	0.17 J
Vanadium	NS	NS	NR	22.4	NR	25.3	NR	31.7
Zinc	109	10,000	NR	49.2	NR	30.3	NR	254

Table 5
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Metals

Client ID	NYSDEC Part 375	NYSDEC Part 375	SB-04_3-5_20190710	SB-04_3-5_20190710	SB-05_0-2_20190710	SB-05_0-2_20190710	SB-05_10-12_20190710	SB-05_10-12_20190710
Lab Sample ID	Unrestricted	Restricted	460-186281-8	460-186281-8	460-186281-5	460-186281-5	460-186281-6	460-186281-6
Date Sampled			07/10/2019	07/10/2019	07/10/2019	07/10/2019	07/10/2019	07/10/2019
Dilution	SCO	Residential SCO	1	20	1	20	1	20
Analyte	mg/kg	mg/kg						
Aluminum	NS	NS	NR	3,460	NR	7,990	NR	10,700
Antimony	NS	NS	NR	1 U	NR	2.2	NR	1.1 U
Arsenic	13	16	NR	3.4	NR	51.7	NR	4.7
Barium	350	400	NR	85.5	NR	526	NR	47.8
Beryllium	7.2	72	NR	0.42 U	NR	0.54	NR	0.63
Cadmium	2.5	4.3	NR	0.75 J	NR	2.5	NR	1.1 U
Calcium	NS	NS	NR	261,000	NR	29,500	NR	1,750
Chromium, Total	NS	NS	NR	13.2	NR	19.4	NR	22.3
Chromium, Hexavalent	1	110	2.2 U	NA	2.5 U	NA	2.3 U	NA
Cobalt	NS	NS	NR	2.9	NR	18.7	NR	8.7
Copper	50	270	NR	21.6	NR	130	NR	20.3
Iron	NS	NS	NR	7,190	NR	62,200	NR	24,600
Lead	63	400	NR	436	NR	933	NR	17.3
Magnesium	NS	NS	NR	26,300	NR	6,140	NR	2,850
Manganese	1,600	2,000	NR	190	NR	345	NR	413
Mercury	0.18	0.81	0.31	NA	0.86	NA	0.025	NA
Nickel	30	310	NR	12.8	NR	23.4	NR	14.6
Potassium	NS	NS	NR	1,220	NR	1,260	NR	1,270
Selenium	3.9	180	NR	5.2 U	NR	17.9	NR	0.36 J
Silver	2	180	NR	1 U	NR	1.2 U	NR	1.1 U
Sodium	NS	NS	NR	122	NR	311	NR	104 J
Thallium	NS	NS	NR	0.42 U	NR	0.83	NR	0.15 J
Vanadium	NS	NS	NR	16.3	NR	30.4	NR	26
Zinc	109	10,000	NR	115	NR	1,180	NR	53.3

Table 5
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Soil Analytical Results
Metals

Client ID	NYSDEC	NYSDEC	SB-06_0-2_20190712	SB-06_0-2_20190712	SB-06_0-2_20190712	SB-06_5-7_20190712	SB-06_5-7_20190712
Lab Sample ID	Part 375	Part 375	460-186524-2	460-186524-2	460-186524-2	460-186524-3	460-186524-3
Date Sampled	Unrestricted	Restricted	07/12/2019	07/12/2019	07/12/2019	07/12/2019	07/12/2019
Dilution	SCO	Residential SCO	1	2	20	1	20
Analyte	mg/kg	mg/kg					
Aluminum	NS	NS	NR	NA	7,530	NR	10,100
Antimony	NS	NS	NR	NA	0.4 J	NR	0.47 J
Arsenic	13	16	NR	NA	6.2	NR	6.2
Barium	350	400	NR	NA	283	NR	223
Beryllium	7.2	72	NR	NA	0.48	NR	0.4 J
Cadmium	2.5	4.3	NR	NA	0.51 J	NR	1.2 U
Calcium	NS	NS	NR	NA	116,000	NR	114,000
Chromium, Total	NS	NS	NR	NA	26.9	NR	21.4
Chromium, Hexavalent	1	110	0.83 J	NA	NA	2.5 U	NA
Cobalt	NS	NS	NR	NA	6.2	NR	4.8
Copper	50	270	NR	NA	30.4	NR	20.8
Iron	NS	NS	NR	NA	19,500	NR	15,100
Lead	63	400	NR	NA	329	NR	213
Magnesium	NS	NS	NR	NA	9,700	NR	7,770
Manganese	1,600	2,000	NR	NA	294	NR	269
Mercury	0.18	0.81	NR	0.95	NA	0.36	NA
Nickel	30	310	NR	NA	19.1	NR	14.3
Potassium	NS	NS	NR	NA	1,680	NR	1,820
Selenium	3.9	180	NR	NA	5.6 U	NR	6.2 U
Silver	2	180	NR	NA	1.1 U	NR	1.2 U
Sodium	NS	NS	NR	NA	548	NR	649
Thallium	NS	NS	NR	NA	0.45 U	NR	0.5 U
Vanadium	NS	NS	NR	NA	26.2	NR	22.6
Zinc	109	10,000	NR	NA	223	NR	151

Table 6
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Groundwater Analytical Results
VOCs

Client ID	NYSDEC	TW-02_20190710	TW-03_20190712	TW-05_20190710	Trip Blank_20190710
Lab Sample ID	Class GA	460-186299-2	460-186563-1	460-186299-1	460-186299-3
Date Sampled	AWQSGVs	07/10/2019	07/12/2019	07/10/2019	07/10/2019
Dilution		1	1	1	1
Analyte	µg/L				
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.1	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	5	1.0 U	1.0 U *	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U *	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene, Total	0.4	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dioxane	NS	50 U	50 U *	50 U	50 U
2-Butanone (MEK)	50	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	50	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)	NS	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50	12	5.0 U	5.0 U	5.0 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U
Chlorodibromomethane	50	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	64	1.0 U	1.4	1.0 U
cis-1,3-Dichloropropene	NS	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	NS	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorobromomethane	50	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U *	1.0 U *
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U
Ethylene Dibromide	0.0006	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	NS	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	10	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	NS	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	0.86 J	0.50 J	0.81 J	1.0 U
m-Xylene & p-Xylene	5	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	5	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	200	2.4	57	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.95 J	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	NS	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	120	1.0 U	0.54 J	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	14	1.0 U	1.0 U	1.0 U
Total Conc	NS	412.91	2.9	59.75	0.0

Table 7
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Groundwater Analytical Results
SVOCs

Client ID	NYSDEC	TW-02_20190710	TW-03_20190712	TW-05_20190710
Lab Sample ID	Class GA	460-186299-2	460-186563-1	460-186299-1
Date Sampled	AWQSGVs	07/10/2019	07/12/2019	07/10/2019
Dilution		1	1	1
Analyte	µg/L			
1,1'-Biphenyl	5	10 U	10 U	10 U
1,2,4,5-Tetrachlorobenzene	5	10 U	10 U	10 U
2,2'-oxybis[1-chloropropane]	5	10 U	10 U	10 U
2,3,4,6-Tetrachlorophenol	NS	10 U	10 U	10 U
2,4,5-Trichlorophenol	NS	10 U	10 U	10 U
2,4,6-Trichlorophenol	NS	10 U	10 U	10 U
2,4-Dichlorophenol	5	10 U	10 U	10 U
2,4-Dimethylphenol	50	10 U	10 U	10 U
2,4-Dinitrophenol	10	20 U	20 U	20 U
2,4-Dinitrotoluene	5	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	5	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	10	10 U	10 U	10 U
2-Chlorophenol	NS	10 U	10 U *	10 U
2-Methylnaphthalene	NS	10 U	10 U	10 U
2-Methylphenol	NS	10 U	10 U *	10 U
2-Nitroaniline	5	10 U	10 U	10 U
2-Nitrophenol	NS	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	10 U	10 U	10 U
3-Nitroaniline	5	10 U	10 U	10 U
4,6-Dinitro-2-methylphenol	NS	20 U	20 U	20 U
4-Bromophenyl phenyl ether	NS	10 U	10 U	10 U
4-Chloro-3-methylphenol	NS	10 U	10 U	10 U
4-Chloroaniline	5	10 U	10 U	10 U
4-Chlorophenyl phenyl ether	NS	10 U	10 U	10 U
4-Methylphenol	NS	10 U	10 U *	10 U
4-Nitroaniline	5	10 U	10 U	10 U
4-Nitrophenol	NS	20 U	20 U *	20 U
Acenaphthene	20	10 U	10 U	10 U
Acenaphthylene	NS	10 U	10 U	10 U
Acetophenone	NS	10 U	10 U	10 U
Anthracene	50	10 U	10 U	10 U
Atrazine	7.5	2.0 U *	2.0 U	2.0 U *
Benzaldehyde	NS	10 U *	10 U	10 U *
Benzo[a]anthracene	0.002	1.0 U	1.0 U	1.0 U
Benzo[a]pyrene	ND	1.0 U	1.0 U	1.0 U
Benzo[b]fluoranthene	0.002	2.0 U	2.0 U	2.0 U
Benzo[g,h,i]perylene	NS	10 U	10 U *	10 U
Benzo[k]fluoranthene	0.002	1.0 U	1.0 U	1.0 U
Bis(2-chloroethoxy)methane	5	10 U	10 U	10 U
Bis(2-chloroethyl)ether	1	1.0 U	1.0 U	1.0 U
Bis(2-ethylhexyl) phthalate	5	2.0 U	2.0 U	2.0 U
Butyl benzyl phthalate	50	10 U	10 U	10 U
Caprolactam	NS	10 U *	10 U	10 U *
Carbazole	NS	10 U	10 U	10 U
Chrysene	0.002	2.0 U	2.0 U	2.0 U
Dibenz(a,h)anthracene	NS	1.0 U	1.0 U *	1.0 U
Dibenzofuran	NS	10 U	10 U	10 U
Diethyl phthalate	50	10 U	10 U	10 U
Dimethyl phthalate	50	10 U	10 U	10 U
Di-n-butyl phthalate	50	10 U	10 U	10 U
Di-n-octyl phthalate	50	10 U	10 U	10 U
Fluoranthene	50	10 U	10 U	10 U
Fluorene	50	10 U	10 U	10 U
Hexachlorobenzene	0.04	1.0 U	1.0 U *	1.0 U
Hexachlorobutadiene	0.5	1.0 U	1.0 U *	1.0 U
Hexachlorocyclopentadiene	5	10 U	10 U	10 U
Hexachloroethane	5	2.0 U	2.0 U	2.0 U
Indeno[1,2,3-cd]pyrene	0.002	2.0 U	2.0 U *	2.0 U
Isophorone	50	10 U	10 U	10 U
Naphthalene	10	10 U	10 U	10 U
Nitrobenzene	0.4	1.0 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	NS	1.0 U	1.0 U *	1.0 U
N-Nitrosodiphenylamine	50	10 U	10 U	10 U
Pentachlorophenol	NS	20 U	20 U	20 U
Phenanthrene	50	10 U	10 U	10 U
Phenol	1	10 U	10 U *	10 U
Pyrene	50	10 U	10 U	10 U
Total Conc	NS	0.0	0.0	0.0

Table 8
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Groundwater Analytical Results
Pesticides

Client ID	NYSDEC	TW-02_20190710	TW-03_20190712	TW-05_20190710
Lab Sample ID	Class GA	460-186299-2	460-186563-1	460-186299-1
Date Sampled	AWQSGVs	07/10/2019	07/12/2019	07/10/2019
Dilution		1	1	1
Analyte	µg/L			
4,4'-DDD	0.3	0.020 U	0.020 U	0.020 U
4,4'-DDE	0.2	0.020 U	0.020 U	0.020 U
4,4'-DDT	0.2	0.020 U	0.020 U	0.020 U
Aldrin	ND	0.020 U	0.020 U	0.020 U
alpha-BHC	0.01	0.020 U	0.020 U	0.020 U
beta-BHC	0.04	0.020 U	0.020 U	0.020 U
Chlordane (technical)	NS	0.50 U	0.50 U	0.50 U
delta-BHC	0.04	0.020 U	0.020 U	0.020 U
Dieldrin	0.004	0.020 U	0.020 U	0.020 U
Endosulfan I	NS	0.020 U	0.020 U	0.020 U
Endosulfan II	NS	0.020 U	0.020 U	0.020 U
Endosulfan sulfate	NS	0.020 U	0.020 U	0.020 U
Endrin	ND	0.020 U	0.020 U	0.020 U
Endrin aldehyde	5	0.020 U	0.020 U	0.020 U
Endrin ketone	5	0.020 U	0.020 U	0.020 U
gamma-BHC (Lindane)	0.05	0.020 U	0.020 U	0.020 U
Heptachlor	0.04	0.020 U	0.020 U	0.020 U
Heptachlor epoxide	0.03	0.020 U	0.020 U	0.020 U
Methoxychlor	35	0.020 U	0.020 U	0.020 U
Toxaphene	0.06	0.50 U	0.50 U	0.50 U

Table 9
521 East Tremont Avenue
Bronx, NY

Subsurface (Phase II) Investigation Groundwater Analytical Results
PCBs

Client ID	NYSDEC	TW-02_20190710	TW-03_20190712	TW-05_20190710
Lab Sample ID	Class GA	460-186299-2	460-186563-1	460-186299-1
Date Sampled	AWQSGVs	07/10/2019	07/12/2019	07/10/2019
Dilution		1	1	1
Analyte	µg/L			
Aroclor 1016	NS	0.40 U	0.40 U	0.40 U
Aroclor 1221	NS	0.40 U	0.40 U	0.40 U
Aroclor 1232	NS	0.40 U	0.40 U	0.40 U
Aroclor 1242	NS	0.40 U	0.40 U	0.4 U
Aroclor 1248	NS	0.40 U	0.40 U	0.40 U
Aroclor 1254	NS	0.40 U	0.40 U	0.40 U
Aroclor 1260	NS	0.40 U	0.40 U	0.40 U
Aroclor 1262	NS	0.40 U	0.40 U	0.40 U
Aroclor 1268	NS	0.40 U	0.40 U	0.40 U
Polychlorinated biphenyls, Total	0.09	0.40 U	0.40 U	0.40 U

Table 10
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Bronx, NY

Subsurface (Phase II) Investigation Groundwater Analytical Results
Metals (Unfiltered)

Client ID	NYSDEC	TW-02_20190710	TW-02_20190710	TW-02_20190710	TW-03_20190712	TW-03_20190712	TW-05_20190710	TW-05_20190710
Lab Sample ID	Class GA	460-186299-2	460-186299-2	460-186299-2	460-186563-1	460-186563-1	460-186299-1	460-186299-1
Date Sampled	AWQSGVs	07/10/2019	07/10/2019	07/10/2019	07/12/2019	07/12/2019	07/10/2019	07/10/2019
Dilution		1	10	2	1	2	1	2
Analyte	µg/L							
Aluminum	NS	NR	NA	13,700	NR	614	NR	41.7
Antimony	3	NR	NA	0.52 J	NR	2 U	NR	0.48 J
Arsenic	25	NR	NA	4.3	NR	2 U	NR	2 U
Barium	1,000	NR	NA	377	NR	138	NR	112
Beryllium	3	NR	NA	1.7	NR	0.8 U	NR	0.8 U
Cadmium	5	NR	NA	2 U	NR	2 U	NR	2 U
Calcium	NS	NR	358,000	NA	NR	180,000	NR	157,000
Chromium	50	NR	NA	97	NR	3.4 J	NR	4 U
Cobalt	NS	NR	NA	37.4	NR	3.4 J	NR	2.1 J
Copper	200	NR	NA	106	NR	3.3 J	NR	4 U
Iron	300	NR	NA	55,000	NR	1,370	NR	80 J
Lead	25	NR	NA	79.8	NR	1.5	NR	1.2 U
Magnesium	35,000	NR	NA	82,100	NR	41,000	NR	32,600
Manganese	300	NR	NA	2,560	NR	183	NR	193
Mercury	0.7	0.26	NA	NA	0.2 U	NA	0.2 U	NA
Nickel	100	NR	NA	44.3	NR	3.4 J	NR	3.8 J
Potassium	NS	NR	NA	14,500	NR	9,240	NR	12,500
Selenium	10	NR	NA	10 U	NR	10 U	NR	6.1 J
Silver	50	NR	NA	2 U	NR	2 U	NR	2 U
Sodium	20,000	NR	NA	160,000	NR	350,000	NR	260,000
Thallium	0.5	NR	NA	0.36 J	NR	0.8 U	NR	0.8 U
Vanadium	NS	NR	NA	106	NR	2.8 J	NR	4 U
Zinc	2,000	NR	NA	204	NR	16 U	NR	16 U

Table 11
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Bronx, NY

Subsurface (Phase II) Investigation Groundwater Analytical Results
Metals (Filtered)

Client ID	NYSDEC	TW-02_20190710	TW-02_20190710	TW-02_20190710	TW-03_20190712	TW-03_20190712	TW-05_20190710	TW-05_20190710
Lab Sample ID	Class GA	460-186299-2	460-186299-2	460-186299-2	460-186563-1	460-186563-1	460-186299-1	460-186299-1
Date Sampled	AWQSGVs	07/10/2019	07/10/2019	07/10/2019	07/12/2019	07/12/2019	07/10/2019	07/10/2019
Dilution		1	10	2	1	2	1	2
Analyte	µg/L							
Aluminum, Dissolved	NS	NR	NA	203	NR	40 U	NR	40 U
Antimony, Dissolved	3	NR	NA	2 U	NR	2 U	NR	2 U
Arsenic, Dissolved	25	NR	NA	2 U	NR	2 U	NR	2 U
Barium, Dissolved	1,000	NR	NA	105	NR	162	NR	103
Beryllium, Dissolved	3	NR	NA	0.8 U	NR	0.8 U	NR	0.8 U
Cadmium, Dissolved	5	NR	NA	2 U	NR	2 U	NR	2 U
Calcium, Dissolved	NS	NR	408,000	NA	NR	213,000	NR	153,000
Chromium, Dissolved	50	NR	NA	4 U	NR	4 U	NR	4 U
Cobalt, Dissolved	NS	NR	NA	8.9	NR	3 J	NR	1.9 J
Copper, Dissolved	200	NR	NA	4 U	NR	4 U	NR	4 U
Iron, Dissolved	300	NR	NA	1,790	NR	120 U	NR	120 U
Lead, Dissolved	25	NR	NA	1.1 J	NR	1.2 U	NR	1.2 U
Magnesium, Dissolved	35,000	NR	NA	83,600	NR	47,300	NR	29,900
Manganese, Dissolved	300	NR	NA	2,110	NR	184	NR	179
Mercury, Dissolved	0.7	0.20 U	NA	NA	0.2 U	NA	0.2 U	NA
Nickel, Dissolved	100	NR	NA	9	NR	2.7 J	NR	2.9 J
Potassium, Dissolved	NS	NR	NA	16,300	NR	10,700	NR	12,300
Selenium, Dissolved	10	NR	NA	10 U	NR	5.7 J	NR	7.1 J
Silver, Dissolved	50	NR	NA	2 U	NR	2 U	NR	2 U
Sodium, Dissolved	20,000	NR	NA	186,000	NR	396,000	NR	231,000
Thallium, Dissolved	0.5	NR	NA	0.8 U	NR	0.8 U	NR	0.8 U
Vanadium, Dissolved	NS	NR	NA	1.3 J	NR	1.1 J	NR	4 U
Zinc, Dissolved	2,000	NR	NA	12.5 J	NR	16 U	NR	16 U

Table 12
521 East Tremont Avenue

Bronx, NY

Subsurface (Phase II) Investigation Soil Vapor Analytical Results
VOCs

Client ID	SV-01_20190710	SV-01_20190710	SV-02_20190710	SV-02_20190710
Lab Sample ID	200-49613-2	200-49613-2-DL	200-49613-1	200-49613-1-DL
Date Sampled	07/10/2019	07/10/2019	07/10/2019	07/10/2019
Dilution	10.42	52.1	7	34.77
Analyte				
1,1,1-Trichloroethane	11 U	57 U	7.6 U	38 U
1,1,2,2-Tetrachloroethane	14 U	72 U	9.6 U	48 U
1,1,2-Trichloroethane	11 U	57 U	7.6 U	38 U
1,1,2-Trichlorotrifluoroethane	16 U	80 U	11 U	53 U
1,1-Dichloroethane	8.4 U	42 U	5.7 U	28 U
1,1-Dichloroethene	1.4 U	7.2 U	0.97 U	4.8 U
1,2,4-Trichlorobenzene	39 U	190 U	26 U	130 U
1,2,4-Trimethylbenzene	10 U	51 U	16	16 J D
1,2-Dibromoethane	16 U	80 U	11 U	53 U
1,2-Dichlorobenzene	13 U	63 U	8.4 U	42 U
1,2-Dichloroethane	8.4 U	42 U	5.7 U	28 U
1,2-Dichloropropane	9.6 U	48 U	6.5 U	32 U
1,2-Dichlorotetrafluoroethane	15 U	73 U	9.8 U	49 U
1,3,5-Trimethylbenzene	10 U	51 U	5 J	34 U
1,3-Butadiene	4.6 U	23 U	2.1 J	15 U
1,3-Dichlorobenzene	13 U	63 U	8.4 U	42 U
1,4-Dichlorobenzene	13 U	63 U	8.4 U	42 U
1,4-Dioxane	190 U	940 U	130 U	630 U
2,2,4-Trimethylpentane	9.7 U	49 U	6.5 U	32 U
2-Chlorotoluene	11 U	54 U	7.2 U	36 U
3-Chloropropene	16 U	82 U	11 U	54 U
4-Ethyltoluene	10 U	51 U	6 J	34 U
4-Isopropyltoluene	11 U	57 U	7.7 U	38 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	21 U	110 U	14 U	71 U
Acetone	1,700 E	1,800 D	1,000 E	1,100 D
Benzene	2.4 J	33 U	3 J	22 U
Benzyl chloride	11 U	54 U	7.2 U	36 U
Bromodichloromethane	14 U	70 U	9.4 U	47 U
Bromoethene(Vinyl Bromide)	9.1 U	46 U	6.1 U	30 U
Bromoform	22 U	110 U	14 U	72 U
Bromomethane	8.1 U	40 U	5.4 U	27 U
Carbon disulfide	16 U	81 U	11 U	54 U
Carbon tetrachloride	2.3 U	11 U	1.5 U	7.6 U
Chlorobenzene	9.6 U	48 U	6.4 U	32 U
Chlorodifluoromethane	18 U	92 U	12 U	61 U
Chloroethane	14 U	69 U	9.2 U	46 U
Chloroform	9.5 J	51 U	11	34 U
Chloromethane	11 U	54 U	7.2 U	36 U
cis-1,2-Dichloroethene	1.4 U	7.2 U	34	34 D
cis-1,3-Dichloropropene	9.5 U	47 U	6.4 U	32 U
Cumene	10 U	51 U	6.9 U	34 U
Cyclohexane	7.2 U	36 U	4.8 U	24 U
Dibromochloromethane	18 U	89 U	12 U	59 U
Dichlorodifluoromethane	26 U	130 U	17 U	86 U
Ethylbenzene	6.2 J	45 U	8.6	11 J D
Hexachlorobutadiene	22 U	110 U	15 U	74 U
Isopropyl alcohol	130 U	640 U	86 U	430 U
m,p-Xylene	8.9 J	110 U	25	26 J D
Methyl Butyl Ketone (2-Hexanone)	21 U	110 U	14 U	71 U
Methyl Ethyl Ketone (2-Butanone)	47	77 U	22	51 U
Methyl methacrylate	21 U	110 U	14 U	71 U
Methyl tert-butyl ether	7.5 U	38 U	5 U	25 U
Methylene Chloride	18 U	90 U	12 U	60 U
Naphthalene	27 U	140 U	18 U	91 U
n-Butane	12 U	62 U	8.3 U	41 U
n-Butylbenzene	11 U	57 U	7.7 U	38 U
n-Heptane	8.5 U	43 U	8.1	29 U
n-Hexane	6.7 J	37 U	10	23 J D
n-Propylbenzene	10 U	51 U	3.8 J	34 U
o-Xylene	3.9 J	45 U	10	12 J D
sec-Butylbenzene	11 U	57 U	7.7 U	38 U
Styrene	8.9 U	44 U	6 U	30 U
tert-Butyl alcohol	160 U	790 U	110 U	530 U
tert-Butylbenzene	11 U	57 U	7.7 U	38 U
Tetrachloroethene	100	100 D	150	160 D
Tetrahydrofuran	150 U	770 U	100 U	510 U
Toluene	60	63 D	68	70 D
trans-1,2-Dichloroethene	8.3 U	41 U	5.6 U	28 U
trans-1,3-Dichloropropene	9.5 U	47 U	6.4 U	32 U
Trichloroethene	6.4	9.8 U	22	22 D
Trichlorofluoromethane	110	110 D	23	23 J D
Vinyl chloride	0.93 U	4.7 U	0.63 U	3.1 U

Table 12
521 East Tremont Avenue

Bronx, NY

Subsurface (Phase II) Investigation Soil Vapor Analytical Results
VOCs

Client ID	SV-03_20190712	SV-03_20190712	SV-04_20190710	SV-04_20190710
Lab Sample ID	200-49613-4	200-49613-4-DL	200-49613-3	200-49613-3-DL
Date Sampled	07/12/2019	07/12/2019	07/10/2019	07/10/2019
Dilution	1	2	9.02	46.9
Analyte				
1,1,1-Trichloroethane	1.1 U	2.2 U	9.8 U	51 U
1,1,2,2-Tetrachloroethane	1.4 U	2.7 U	12 U	64 U
1,1,2-Trichloroethane	1.1 U	2.2 U	9.8 U	51 U
1,1,2-Trichlorotrifluoroethane	1.5 U	3.1 U	14 U	72 U
1,1-Dichloroethane	0.81 U	1.6 U	7.3 U	38 U
1,1-Dichloroethene	0.14 U	0.28 U	1.3 U	6.5 U
1,2,4-Trichlorobenzene	3.7 U	7.4 U	33 U	170 U
1,2,4-Trimethylbenzene	9.8	11 D	15	46 U
1,2-Dibromoethane	1.5 U	3.1 U	14 U	72 U
1,2-Dichlorobenzene	1.2 U	2.4 U	11 U	56 U
1,2-Dichloroethane	0.81 U	1.6 U	7.3 U	38 U
1,2-Dichloropropane	0.92 U	1.8 U	8.3 U	43 U
1,2-Dichlorotetrafluoroethane	1.4 U	2.8 U	13 U	66 U
1,3,5-Trimethylbenzene	5.7	6.6 D	3.6 J	46 U
1,3-Butadiene	0.49	0.43 J D	4 U	21 U
1,3-Dichlorobenzene	1.2 U	2.4 U	11 U	56 U
1,4-Dichlorobenzene	1.2 U	2.4 U	11 U	56 U
1,4-Dioxane	18 U	36 U	160 U	850 U
2,2,4-Trimethylpentane	0.93 U	1.9 U	8.4 U	44 U
2-Chlorotoluene	1 U	2.1 U	9.3 U	49 U
3-Chloropropene	1.6 U	3.1 U	14 U	73 U
4-Ethyltoluene	7.4	8.9 D	4.6 J	46 U
4-Isopropyltoluene	1.6	1.9 J D	9.9 U	51 U
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2 U	4.1 U	18 U	96 U
Acetone	100 E	96 D	1,600 E	1,500 D
Benzene	19	20 D	5.3 J	30 U
Benzyl chloride	1 U	2.1 U	9.3 U	49 U
Bromodichloromethane	1.3 U	2.7 U	12 U	63 U
Bromoethene(Vinyl Bromide)	0.87 U	1.7 U	7.9 U	41 U
Bromoform	2.1 U	4.1 U	19 U	97 U
Bromomethane	0.78 U	1.6 U	7 U	36 U
Carbon disulfide	100	100 D	14 U	73 U
Carbon tetrachloride	0.22 U	0.44 U	2 U	10 U
Chlorobenzene	0.92 U	1.8 U	8.3 U	43 U
Chlorodifluoromethane	1.8 U	3.5 U	16 U	83 U
Chloroethane	1.3 U	2.6 U	12 U	62 U
Chloroform	11	11 D	8.8 U	46 U
Chloromethane	1 U	2.1 U	9.3 U	48 U
cis-1,2-Dichloroethene	6.7	6.8 D	1.3 U	6.5 U
cis-1,3-Dichloropropene	0.91 U	1.8 U	8.2 U	43 U
Cumene	0.98 U	2 U	8.9 U	46 U
Cyclohexane	140 E	140 D	6.2 U	32 U
Dibromochloromethane	1.7 U	3.4 U	15 U	80 U
Dichlorodifluoromethane	8.6	8.9 D	22 U	120 U
Ethylbenzene	31	36 D	10	41 U
Hexachlorobutadiene	2.1 U	4.3 U	19 U	100 U
Isopropyl alcohol	12 U	25 U	110 U	580 U
m,p-Xylene	100	120 D	29	29 J D
Methyl Butyl Ketone (2-Hexanone)	2 U	4.1 U	18 U	96 U
Methyl Ethyl Ketone (2-Butanone)	13	13 D	40	69 U
Methyl methacrylate	2 U	4.1 U	18 U	96 U
Methyl tert-butyl ether	0.72 U	1.4 U	6.5 U	34 U
Methylene Chloride	1.7 U	3.5 U	16 U	81 U
Naphthalene	2.6 U	5.2 U	17 J	120 U
n-Butane	40	37 D	11 U	56 U
n-Butylbenzene	1.1 U	2.2 U	9.9 U	51 U
n-Heptane	110	100 D	6.7 J	38 U
n-Hexane	110	100 D	7.2	26 J D
n-Propylbenzene	0.98 U	2 U	4 J	46 U
o-Xylene	26	30 D	13	16 J D
sec-Butylbenzene	1.1 U	2.2 U	9.9 U	51 U
Styrene	0.85 U	1.7 U	7.7 U	40 U
tert-Butyl alcohol	15 U	30 U	140 U	710 U
tert-Butylbenzene	1.1 U	2.2 U	9.9 U	51 U
Tetrachloroethene	38	45 D	1.8 J	64 U
Tetrahydrofuran	15 U	29 U	130 U	690 U
Toluene	150 E	180 D	81	83 D
trans-1,2-Dichloroethene	0.79 U	1.6 U	7.2 U	37 U
trans-1,3-Dichloropropene	0.91 U	1.8 U	8.2 U	43 U
Trichloroethene	18	19 D	1.7 U	8.8 U
Trichlorofluoromethane	2.2	2.2 D	10 U	53 U
Vinyl chloride	0.3	0.22 D	0.81 U	4.2 U

Tables 1-12
521 East Tremont Avenue
Bronx, NY
Subsurface (Phase II) Investigation
Notes

GENERAL

- B** : The analyte was found in an associated blank, as well as in the sample.
- D** : Result is from an analysis that required a dilution.
- E** : Result exceeded calibration range.
- J** : The concentration given is an estimated value.
- NA** : Not applicable.
- ND** : The standard is a non-detectable concentration by the approved analytical method.
- NR** : Not reported.
- NS** : No standard.
- P** : The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
- U** : The analyte was not detected at the indicated concentration.
- * : LCS or LCSD is outside acceptable limits.

SOIL

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

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

Exceedances of Part 375 Unrestricted Soil Cleanup Objectives (UUSCOs) are highlighted in bold font.
Exceedances of Part 375 Restricted Residential Soil Cleanup Objectives (RRSCO) are highlighted in gray.

GROUNDWATER

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

µg/L : micrograms per Liter

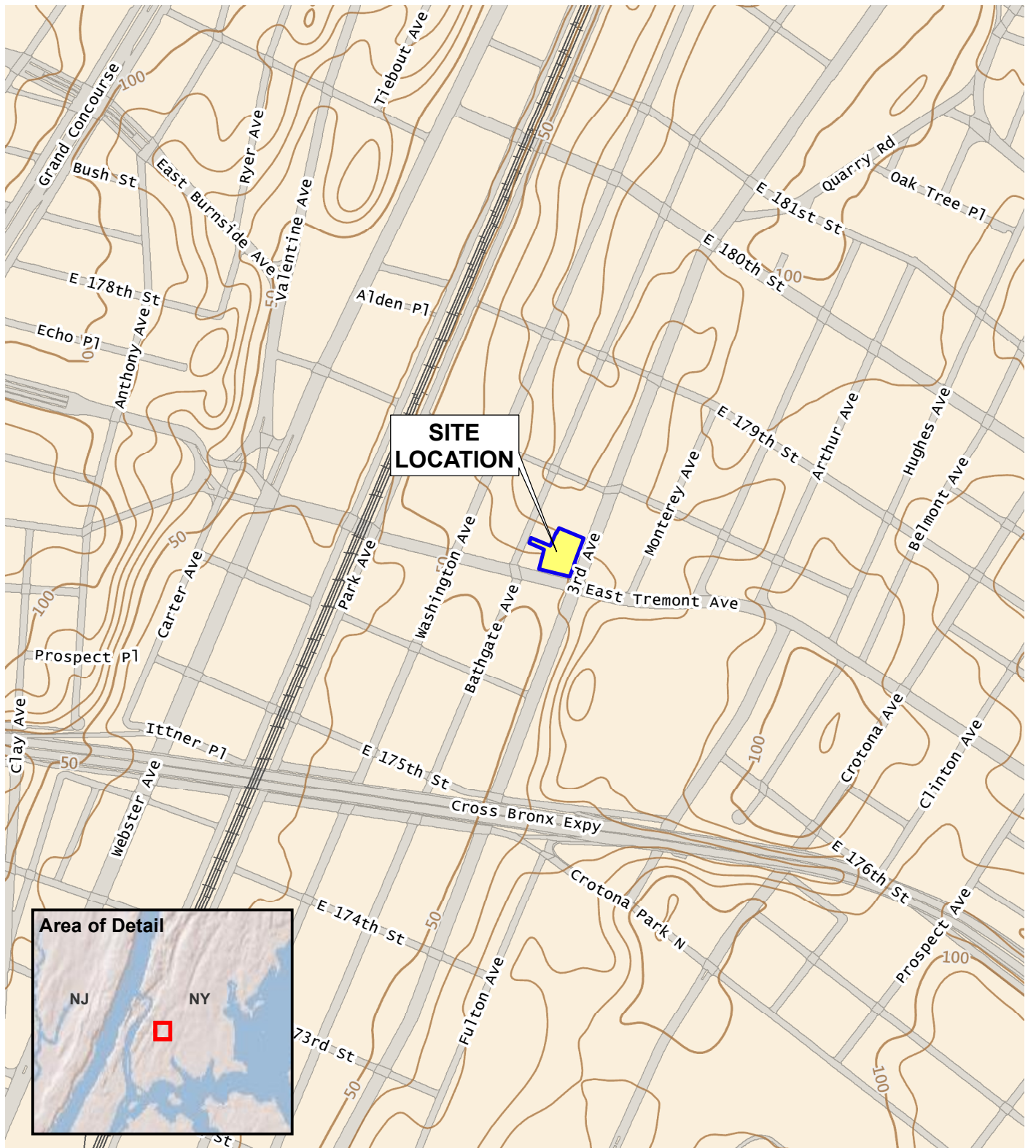
Exceedances of NYSDEC Class GA AWQSGVs are highlighted in bold font.

SOIL VAPOR

µg/m³ : micrograms per cubic meter of air

FIGURES

© 2019 AKRF. W:\Projects\190204 - 521 EAST TREMONT AVENUE\Technical\GIS and Graphics\hazmat\190204 Fig 1 site loc map.mxd 7/22/2019 9:28:20 AM jszalus



Service Layer Credits: USGS The National Map: 3d Elevation Program 2018

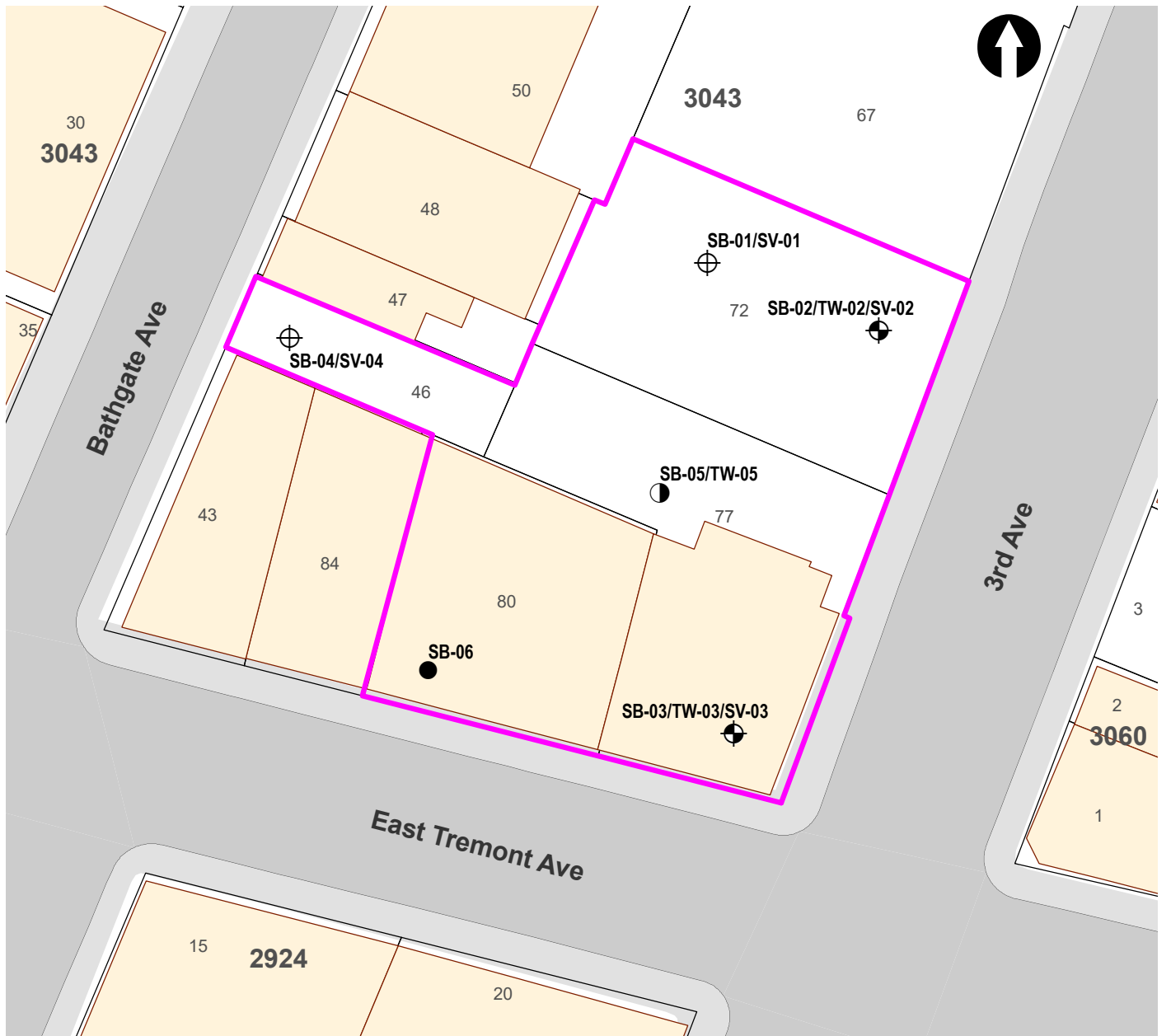


440 Park Avenue South, New York, NY 10016

521 East Tremont Avenue
Bronx, New York

SITE LOCATION

DATE	7/22/2019
PROJECT NO.	190204
FIGURE	1



LEGEND



PROJECT SITE BOUNDARY



LOT BOUNDARY AND TAX LOT NUMBER

3043

BLOCK NUMBER



BUILDING



SUBSURFACE INVESTIGATION SOIL BORING LOCATION



SUBSURFACE INVESTIGATION SOIL BORING LOCATION/SOIL VAPOR LOCATION



SUBSURFACE INVESTIGATION SOIL BORING LOCATION/TEMPORARY WELL



SUBSURFACE INVESTIGATION SOIL BORING LOCATION/TEMPORARY WELL/SOIL VAPOR LOCATION

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



SCALE IN FEET

© 2019 AKRF. W:\Projects\190204 - 521 East Tremont Avenue\Technical\GIS and Graphics\hazmat\190204 Fig 2 Sample Location Plan.mxd 7/24/2019 12:09:31 AM jszalus



440 Park Avenue South, New York, NY 10016

521 East Tremont Avenue
Bronx, New York

SAMPLE LOCATION PLAN

DATE

7/24/2019

PROJECT NO.

190204

FIGURE

2

APPENDIX A
PREVIOUS ENVIRONMENTAL REPORTS

APPENDIX B
GEOPHYSICAL REPORT



GEOPHYSICAL INVESTIGATION REPORT

PERFORMED AT:

**521 East Tremont Avenue
Bronx, NY 10457**

PREPARED FOR:

**Adrianna Bosco
AKRF
440 Park Avenue South, 7th Floor
New York, NY 10016**

PREPARED BY:

**John Rango
Geophysical Technician
Enviroprobe Service, Inc.
81 Marter Avenue
Mount Laurel, NJ 08054
Phone: (856) 858-8584
Toll Free: (800) 596-7472**

July 10, 2019

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 GSSI UtilityScan cart-mounted ground penetrating radar (GPR) unit with a 350 MHz antenna, a Fisher TW-6 metallic locator, a Radiodetection multi-frequency transmitter, and a Radiodetection receiver.

Ground penetrating radar (commonly called GPR) is a geophysical method that has been developed over the past thirty years for shallow, high-resolution, subsurface investigations of the earth. GPR uses high frequency pulsed electromagnetic waves (generally 10 MHz to 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 that is commonly used for environmental, engineering, archaeological, and other shallow investigations.

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.

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.

2.0 SCOPE OF WORK

On July 10, 2019, a geophysical technician from Enviroprobe Service Inc. was mobilized to the subject property to perform a geophysical investigation. The purpose of

the investigation was to clear proposed boring locations, detect possible USTs, and designate underground conduits/utilities in an active parking lot, a vacant lot. A basement area, and a party supply facility. The ground surface of the survey area consisted of concrete and asphalt surfaces.

3.0 SURVEY RESULTS

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. Designated utilities were marked on-site with spray paint using the following colors: pink – storm drain lines. These utilities were delineated in parking lot areas only. The loose rock lot was cleared of all utilities. The downstairs basement area had an aboveground UST encased in concrete. The party supply facility was a slab on grade and had very narrow walkways and large amounts of storage areas.

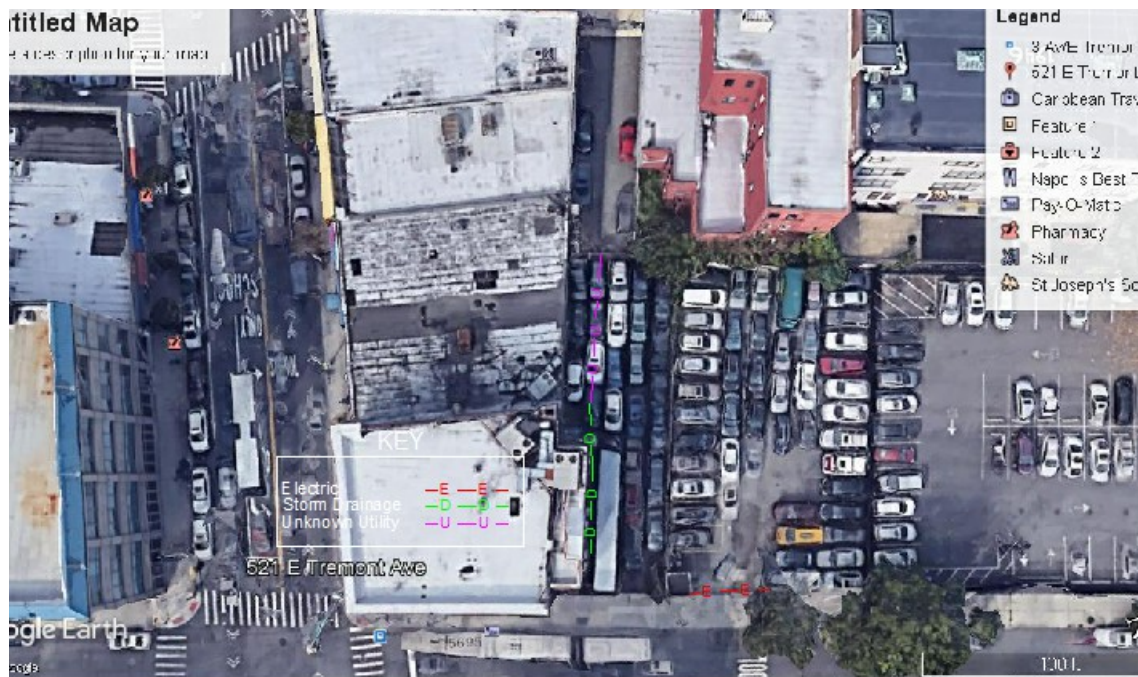


Figure 1: Area of designated utilities. *(Not to scale)

The GPR and TW-6 were used in a grid pattern over all client specified areas of the site. Based on the results of the GPR and TW-6 surveys, no metallic anomalies were detected on site.

Client-selected proposed boring/monitoring well locations were investigated with the GPR, TW-6, and RD receiver. When possible, an area of approximately 10 ft by 10 ft

surrounding each location was scanned. In some cases, obstructions prevented an investigation of the entire 10 ft by 10 ft area.

4.0 LIMITATIONS

Due to surface conditions and subsurface content, the GPR penetration depth was estimated as about 3 feet in the majority of the survey area. Additional limitations included parked vehicles, fence lines, uneven terrain, narrow walkways, and storage areas.

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.


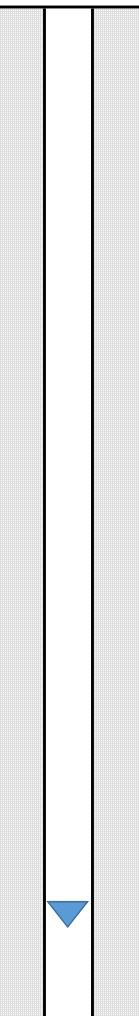
GPR data is subject to signal anomalies and operator interpretation. The GPR data is intended to provide the locations of areas of concern requiring additional investigation or the approximate location of underground structures and utilities. Great care must be utilized when excavating and/or drilling 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.

APPENDIX C
SOIL BORING LOGS

SOIL BORING LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Soil Boring ID: Sheet 1 of 1		SB-01			
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Drilling					
		Sampling Method:	5' Macrocore	Start Time: 08:00		Finish Time: 08:50			
		Driller:	Cascade	Date: 7/10/2019					
		Weather:	85°F, Sunny						
Logged By:	J. Menken, AKRF								
Depth (feet)	Recovery (Inches)	Surface Condition: Asphalt			Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	23	Top 13": Brown SAND, some fine Gravel, Silt, trace Concrete, Asphalt, Brick, Plastic (FILL).			ND	DRY	ND	ND	SB-01_0-2_20190710
2		Next 7": Brown SAND, some Gravel, Silt, trace Brick (FILL).			ND	DRY	ND	ND	
3		Bottom 3": Brown SAND, some fine Gravel, trace Asphalt, Brick (FILL).			ND	DRY	ND	ND	
4									
5									
6	18	Top 4": SLOUGH.			ND	DRY	ND	ND	
7		Next 11": Brown SAND, some Silt, fine Gravel.			ND	MOIST @ 8'	ND	ND	
8		Bottom 3": Light brown SAND, some Gravel, Silt.			ND	MOIST	ND	ND	
9									
10									
11	19	Top 3": SLOUGH.			ND	MOIST	ND	ND	SB-01_10-12_20190710
12		Next 16": Brown SAND, some Silt, trace fine Gravel.			ND	MOIST	ND	ND	
13									
14									
15									
Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals. Groundwater not encountered during soil boring advancement. End of soil boring at 13 feet below surface grade due to refusal. PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected <i>Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.</i>									


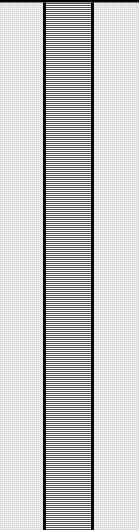

SOIL BORING AND WELL INSTALLATION LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Groundwater Monitoring Well ID: TW-02		Soil Boring ID: SB-02		Sheet 1 of 2			
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Start Time: 08:55				Finish Time: 10:05			
		Sampling Method:	5' Macrocore								
		Driller:	Cascade	Date: 7/10/2019							
		Weather:	85°F, Sunny								
		Logged by:	J. Menken, AKRF								
Depth (feet)	Temporary Well Construction	Surface Condition: Asphalt		Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis	
1		1" diameter PVC well casing: 0' to 20.25' below grade.		21	Brown SAND, some Gravel, Brick, trace Concrete, Silt, Glass (FILL).	ND	DRY	ND	ND	SB-02_0-2_20190710	
2											
3		#2 Morie Sand: 18' to 30.25' below grade.		17	Brown SAND, some Gravel, Brick, trace Concrete, Silt, Glass (FILL).	ND	DRY	ND	ND		
4											
5											
6		0.020-inch slotted PVC well screen: 20.25' to 30.25' below grade.		17	Brown SAND, some Gravel, Brick, trace Concrete, Silt, Glass (FILL).	ND	DRY	ND	ND		
7											
8											
9											
10		Moist @ 9'		39	Top 2": SLOUGH. Next 30": Brown CLAYEY SILT, some fine Sand. Bottom 7": Brown SAND, some fine Gravel, trace Silt.	ND	MOIST	ND	ND	SB-02_10-12_20190710	
11											
12											
13		Top 10": SLOUGH. Next 23": Red-brown CLAYEY SILT, some Sand, trace Gravel. Next 13": Light Brown to Brown SAND, some Gravel, Silt.		46	Top 10": SLOUGH. Next 23": Red-brown CLAYEY SILT, some Sand, trace Gravel. Next 13": Light Brown to Brown SAND, some Gravel, Silt.	ND	MOIST	ND	ND		
14											
15											
16											
17		Groundwater Depth Indicator		46	Top 10": SLOUGH. Next 23": Red-brown CLAYEY SILT, some Sand, trace Gravel. Next 13": Light Brown to Brown SAND, some Gravel, Silt.	ND	MOIST	ND	ND		
18											
19											
20											


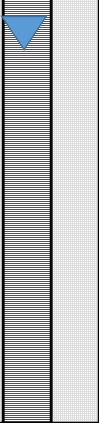

Notes: Groundwater measured at 18 feet below surface grade in TW-02 on 7/10/2019.
Groundwater monitoring well installed to 30.25 feet below grade.


Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
Groundwater not encountered during soil boring advancement.
End of soil boring at 30 feet below surface grade.


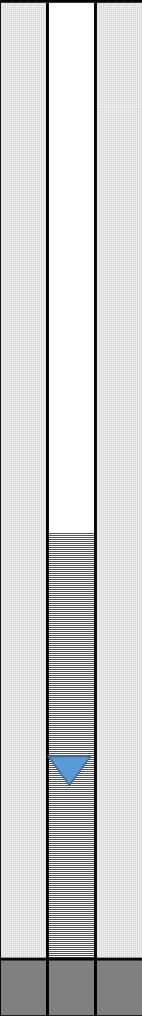
PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected


Soil classifications and descriptions presented are methods of the Modified Burmister Classification System based solely on visual field observations. Descriptions and methodologies were developed for environmental purposes only.

SOIL BORING AND WELL INSTALLATION LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Groundwater Monitoring Well ID: TW-02		Soil Boring ID: SB-02		Sheet 2 of 2				
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Start Time: 08:55				Finish Time: 10:05				
		Sampling Method:	5' Macrocore									
		Driller:	Cascade	Date: 7/10/2019								
		Weather:	85°F, Sunny									
		Logged by:	J. Menken, AKRF									
Depth (feet)	Temporary Well Construction	Surface Condition: Asphalt		Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis		
21		#2 Morie Sand: 18' to 30.25' below grade.		60	Top 6": SLOUGH.	ND	MOIST	ND	ND			
22					Bottom 54": Gray CLAY, some Silt.	ND	MOIST	ND	ND			
23				0.020-inch slotted PVC well screen: 20.25' to 30.25' below grade.		60	Gray CLAY, some Silt, trace Sand.	ND	MOIST	ND	ND	
24												
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
Notes:  Groundwater Depth Indicator Groundwater measured at 18 feet below surface grade in TW-02 on 7/10/2019. Groundwater monitoring well installed to 30.25 feet below grade.				Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals. Groundwater not encountered during soil boring advancement. End of soil boring at 30 feet below surface grade.								
PID = photoionization detector				NAPL = non-aqueous phase liquid		ppm = parts per million		ND = not detected				
<i>Soil classifications and descriptions presented are methods of the Modified Burmister Classification System based solely on visual field observations. Descriptions and methodologies were developed for environmental purposes only.</i>												

SOIL BORING AND WELL INSTALLATION LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Groundwater Monitoring Well ID: TW-03		Soil Boring ID: SB-03				
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Start Time: 08:35			Finish Time: 09:05			
		Sampling Method:	5' Macrocore							
		Driller:	Cascade	Date: 7/12/2019						
		Weather:	80°F, Sunny							
		Logged by:	J. Menken, AKRF							
Depth (feet)	Temporary Well Construction	Surface Condition: Concrete	Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis	
1		Concrete #2 Morie Sand: 0' to 7.8' below grade. 0.020-inch slotted PVC well screen: 0' to 7.8' below grade.	22	Top 10": CONCRETE SLAB.	ND	DRY	ND	ND	SB-03_0-2_20190712	
2			Bottom 12": Brown SAND, some fine Gravel, trace Brick, Silt (FILL).	ND	DRY	ND	ND			
3			34	Brown SAND, some fine Gravel, trace Silt.	ND	WET @ 3'	ND	ND		
4				34	Top 17": Brown SAND, some fine Gravel, trace Silt.	ND	WET	ND	ND	
5					Bottom 17": Brown SAND, some fine Gravel, trace Silt.	ND	WET	ND	ND	
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
Notes:  Groundwater Depth Indicator Groundwater measured at 1.0 feet below existing cellar grade in TW-03 on 7/12/2019. Groundwater monitoring well installed to 7.8 feet below grade.				Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals. Groundwater encountered at approximately 3 feet below existing cellar grade during soil boring advancement. End of soil boring at 9 feet below existing cellar grade.						
PID = photoionization detector		NAPL = non-aqueous phase liquid		ppm = parts per million		ND = not detected				
Soil classifications and descriptions presented are methods of the Modified Burmister Classification System based solely on visual field observations. Descriptions and methodologies were developed for environmental purposes only.										


SOIL BORING LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Soil Boring ID: Sheet 1 of 1		SB-04		
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Drilling				
		Sampling Method:	5' Macrocore	Start Time: 13:25		Finish Time: 13:45		
		Driller:	Cascade	Date: 7/10/2019				
		Weather:	85°F, Sunny					
Logged By:	J. Menken, AKRF							
Depth (feet)	Recovery (Inches)	Surface Condition: Gravel/Soil		Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	28	Brown SAND and GRAVEL, some Asphalt, trace Silt, Brick (FILL).		ND	DRY	ND	ND	SB-04_0-2_20190710
2								
3								
4								
5								SB-04_3-5_20190710
6	9	Brown SAND, some Asphalt, trace Silt, Brick, Gravel (FILL).		ND	DRY	ND	ND	
7								
8								
9								
10								
11								
12								
13								
14								
15								
Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals. Groundwater not encountered during soil boring advancement. End of soil boring at 6 feet below surface grade due to refusal on apparent bedrock. PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.								

SOIL BORING AND WELL INSTALLATION LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Groundwater Monitoring Well ID: TW-05		Soil Boring ID: SB-05		Sheet 1 of 1			
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Start Time: 10:40				Finish Time: 11:30			
		Sampling Method:	5' Macrocore								
		Driller:	Cascade	Date: 7/10/2019							
		Weather:	85°F, Sunny								
		Logged by:	J. Menken, AKRF								
Depth (feet)	Temporary Well Construction	Surface Condition: Asphalt		Recovery (Inches)	Soil Boring Log	Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis	
1		1" diameter PVC well casing: 0' to 8.15' below grade. #2 Morie Sand: 6' to 18.15' below grade. 0.020-inch slotted PVC well screen: 8.15' to 18.15' below grade.		28	Top 2": ASPHALT.	ND	DRY	ND	ND	SB-05_0-2_20190710	
2					Next 26": Black SAND and GRAVEL, some Silt, trace Brick, Concrete (FILL).	ND	DRY	ND	ND		
3				42	Top 9": SLOUGH (FILL).	ND	DRY	ND	ND	SB-05_10-12_20190710	
4					Middle 20": Brown SAND and SILT, trace fine Gravel (FILL).	ND	DRY	ND	ND		
5					Bottom 13": Black SAND, trace Silt (FILL).	ND	DRY	ND	ND		
6					Top 8": SLOUGH (FILL).	ND	DRY	ND	ND		
7				36	Middle 25": Brown SAND and SILT, trace fine Gravel (FILL).	ND	WET @ 13'	ND	ND	SB-05_10-12_20190710	
8					Bottom 5": White SAND, SILT and Gravel.	ND	WET	ND	ND		
9					Brown SAND and SILT, trace fine Gravel.	ND	WET	ND	ND		
10				12							
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											

Notes:  Groundwater Depth Indicator
 Groundwater measured at 14.95 feet below surface grade in TW-05 on 7/10/2019.
 Groundwater monitoring well installed to 18.15 feet below grade.

Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals.
 Groundwater encountered at approximately 13 feet below surface grade during soil boring advancement.
 End of soil boring at 20 feet below surface grade.

PID = photoionization detector NAPL = non-aqueous phase liquid ppm = parts per million ND = not detected
 Soil classifications and descriptions presented are methods of the Modified Burmister Classification System based solely on visual field observations. Descriptions and methodologies were developed for environmental purposes only.

SOIL BORING LOG		521 East Tremont Avenue, Bronx, NY AKRF Project Number: 190204		Soil Boring ID: Sheet 1 of 1		SB-06		
 440 Park Avenue South, 7 th Floor New York, NY 10016		Drilling Method:	Geoprobe	Drilling				
		Sampling Method:	5' Macrocore	Start Time: 11:40		Finish Time: 12:40		
		Driller:	Cascade	Date: 7/12/2019				
		Weather:	80°F, Sunny					
Logged By:	J. Menken, AKRF							
Depth (feet)	Recovery (Inches)	Surface Condition: Concrete		Odor	Moisture	PID (ppm)	NAPL	Soil Samples Collected for Laboratory Analysis
1	7	Top 3": CONCRETE SLAB.		ND	DRY	ND	ND	SB-06_0-2_20190712
2		Bottom 4": Brown-Gray SAND, some Gravel, Brick, little Silt, Concrete (FILL).		ND	DRY	ND	ND	
3								
4	10	Top 9": Brown-Gray SAND, some Gravel, Brick, little Silt, Concrete (FILL).		ND	DRY	ND	ND	SB-06_5-7_20190712
5		Bottom 1": Brown SAND, some Wood, fine Gravel, trace Metal (FILL).		Petroleum-like	DRY	97	ND	
6								
7	9	Brown SAND, some Wood, fine Gravel, trace Ceramic, Glass (FILL).		ND	DRY	ND	ND	
8								
9								
10								
11								
12								
13								
14								
15								
Notes: Samples analyzed for VOCs, SVOCs, Pesticides, PCBs, and TAL Metals. Groundwater not encountered during soil boring advancement. End of soil boring at 7 feet below surface grade due to refusal on apparent bedrock. Three borings attempted and encountered refusal between 0 and 7 feet below grade. PID = photoionization detector ppm = parts per million NAPL = non-aqueous phase liquid ND = not detected <i>Soil classifications and descriptions presented are based on the Modified Burmister Classification System. Descriptions were developed for environmental purposes only.</i>								

APPENDIX D
GROUNDWATER SAMPLING LOGS



Groundwater Monitoring Well Sampling Log

Job No: 190204						Client: M521 Tremont LLC			Well No: TW-02
Project Location: 521 East Tremont Avenue, Bronx NY						Sampled By: J. Menken, AKRF			
Date: 7/10/2019						Sampling Time: 14:30			
PID at surface: Not Detected									
Total Depth: 30.25 ft. below top of casing				Water Column (WC): 12.25 feet			*= 0.041 * WC for 1" wells		
Depth to Water: 18 ft. below top of casing				Well Volume*: 0.50 gallons			*= 0.163 * WC for 2" wells		
Depth to Product: Not Detected				Volume Purged: 2 gallons			*= 0.653 * WC for 4" wells		
Depth to top of screen: 20.25 ft. below top of casing				Well Diam.: 1 inch			Target maximum flow rate is 100 ml/min		
Depth to bottom of screen: 30.25 ft. below top of casing				Purging Device (pump type):					
Approx. Pump Intake: 25.0 ft. below top of casing				Peristaltic Pump					
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)
13:15	Purge Three Well Volumes								
14:05	18.25	100	25.67	3.19	7.51	7.77	-13	0	No Odor/No Sheen on purge water.
14:10	18.25	100	24.91	2.71	7.39	7.76	-23	0.0	
14:15	18.25	100	25.21	3.6	7.36	7.77	-16	0.0	
14:20	18.25	100	25.61	3.57	7.39	7.75	-21	49.5	
14:25	18.25	100	26.01	3.24	7.43	7.75	-23	49.9	
14:30	18.25	100	26.19	3.31	7.50	7.80	-11	49.9	
14:30	SAMPLING								
14:55	18.25	100	26.71	3.39	7.71	7.81	-25	109.1	
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 sample TW-05_20190710 analyzed for VOCs SVOCs, Pesticides, PCBS, Total and Dissolved TAL Metals.									



Groundwater Monitoring Well Sampling Log

Job No: 190204	Client: M521 Tremont LLC	Well No: TW-03
Project Location: 521 East Tremont Avenue, Bronx NY	Sampled By: J. Menken, AKRF	
Date: 7/12/2019	Sampling Time: 10:35	
PID at surface: Not Detected		

Total Depth: 7.8 ft. below top of casing	Water Column (WC): 6.8 feet	*= 0.041 * WC for 1" wells
Depth to Water: 1.0 ft. below top of casing	Well Volume*: 0.28 gallons	*= 0.163 * WC for 2" wells
Depth to Product: Not Detected	Volume Purged: 2 gallons	*= 0.653 * WC for 4" wells
Depth to top of screen: 0.00 ft. below top of casing	Well Diam.: 1 inch	Target maximum flow rate is 100 ml/min
Depth to bottom of screen: 7.80 ft. below top of casing	Purging Device (pump type): Peristaltic Pump	
Approx. Pump Intake: 3.9 ft. below top of casing		

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)
9:40	Purge Three Well Volumes								
10:15	1.00	100	20.35	3.43	1.48	7.48	45	39.6	No Odor/No Sheen on purge water.
10:20	1.00	100	20.21	3.42	1.77	7.44	50	49.3	
10:25	1.00	100	20.36	3.43	1.49	7.42	51	21.9	
10:30	1.00	100	20.14	3.45	1.27	7.38	55	29.8	
10:35	1.00	100	20.16	3.46	1.33	7.36	58	20.7	
10:35	SAMPLING								
10:45	1.00	100	20.19	3.45	1.37	7.40	59	29.2	
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 sample TW-05_20190710 analyzed for VOCs SVOCs, Pesticides, PCBS, Total and Dissolved TAL Metals.



Groundwater Monitoring Well Sampling Log

Job No: 190204						Client: M521 Tremont LLC			Well No: TW-05
Project Location: 521 East Tremont Avenue, Bronx NY						Sampled By: J. Menken, AKRF			
Date: 7/10/2019						Sampling Time: 12:45			
PID at surface: Not Detected									
Total Depth: 18.15 ft. below top of casing				Water Column (WC): 3.2 feet		*= 0.041 * WC for 1" wells			
Depth to Water: 14.95 ft. below top of casing				Well Volume*: 0.13 gallons		*= 0.163 * WC for 2" wells			
Depth to Product: Not Detected				Volume Purged: 1.5 gallons		*= 0.653 * WC for 4" wells			
Depth to top of screen: 8.15 ft. below top of casing				Well Diam.: 1 inch		Target maximum flow rate is 100 ml/min			
Depth to bottom of screen: 18.15 ft. below top of casing				Purging Device (pump type): Peristaltic Pump					
Approx. Pump Intake: 16.5 ft. below top of casing									
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)
12:00	Purge Three Well Volumes								
12:25	14.95	100	26.82	2.48	7.53	8.17	109	28.2	No Odor/No Sheen on purge water.
12:30	15.05	100	21.57	2.51	7.19	7.63	94	17.6	
12:35	15.10	100	22.23	2.46	5.97	7.56	108	30.3	
12:40	15.10	100	21.88	2.65	5.88	7.53	104	29.9	
12:45	15.10	100	22.28	2.62	5.67	7.52	103	21.7	
12:45	SAMPLING								
13:05	15.10	100	21.71	2.63	5.71	7.49	106	33.9	If water quality parameters do not stabilize and/or turbidity is greater than 50 NTU within two hours, discontinue purging and collect sample.
Stabilization Criteria:				+/- 3 mS/cm	+/- 0.3 mg/L	+/- 0.1 pH units	+/- 10 mV	<50 NTU	
Groundwater sample TW-05_20190710 analyzed for VOCs SVOCs, Pesticides, PCBS, Total and Dissolved TAL Metals.									

APPENDIX E
SOIL VAPOR LOGS



Soil Vapor Sample Log

AKRF Project No:	190204	Point Installed By:	Cascade Technical Services
Project Location:	521 East Tremont Avenue	Installation Method:	Geoprobe Direct Probe Push
Client:	M521 Tremont LLC	Sampled By:	J. Menken, AKRF
Date:	7/10/2019	Weather:	85°F, Sunny
Sample Setup			
Vapor Point Depth:	120	Inches	Total Time of Purge: 10-Minutes
Purging Pump:	Gilair Plus (or equal)		Purge Volume: 2-Liters
Pump Flow Rate*:	0.2	L/min	Purged Vapor PID: 92.4 ppm
			Helium Concentration: ND %
Sample Identification			
Soil Vapor Point ID:	SV-01	SUMMA® Canister ID:	4429
Flow Controller ID:	6156	Soil Vapor Sample ID:	SV-01_20190710
Sample Collection			
Time		Vacuum (in/Hg)	Background PID
Time Started:	11:40	-28	ND
Time Halfway:	12:40	-18	ND
Time Stopped:	13:40	-6	ND
Notes:	*Purge flow rate not to exceed 0.2 L/min.		
	ND = non-detect ppm = parts per million L/min = Liters per minute		
	SV-01 installed at proposed excavation depth.		
	Soil vapor sample SV-01_20190710 collected in a 6-L SUMMA® canister using a 2-hour flow controller.		



Soil Vapor Sample Log

AKRF Project No:	190204	Point Installed By:	Cascade Technical Services
Project Location:	521 East Tremont Avenue	Installation Method:	Geoprobe Direct Probe Push
Client:	M521 Tremont LLC	Sampled By:	J. Menken, AKRF
Date:	7/10/2019	Weather:	85°F, Sunny

Sample Setup

Vapor Point Depth:	120	Inches	Total Time of Purge:	10-Minutes
Purging Pump:	Gilair Plus (or equal)		Purge Volume:	2-Liters
Pump Flow Rate*:	0.2	L/min	Purged Vapor PID:	96.5 ppm
			Helium Concentration:	ND %

Sample Identification

Soil Vapor Point ID:	SV-02	SUMMA® Canister ID:	4311
Flow Controller ID:	3976	Soil Vapor Sample ID:	SV-02_20190710

Sample Collection

	Time	Vacuum (in/Hg)	Background PID	Notes
Time Started:	11:05	-27	ND	
Time Halfway:	12:05	-16	ND	
Time Stopped:	13:05	-5	ND	

Notes:	*Purge flow rate not to exceed 0.2 L/min.		
	ND = non-detect ppm = parts per million L/min = Liters per minute		
	SV-02 installed at proposed excavation depth.		
	Soil vapor sample SV-02_20190710 collected in a 6-L SUMMA® canister using a 2-hour flow controller.		



Soil Vapor Sample Log

AKRF Project No:	190204	Point Installed By:	Cascade Technical Services
Project Location:	521 East Tremont Avenue	Installation Method:	Geoprobe Direct Probe Push
Client:	M521 Tremont LLC	Sampled By:	J. Menken, AKRF
Date:	7/12/2019	Weather:	80°F, Sunny

Sample Setup

Vapor Point Depth:	18	Inches	Total Time of Purge:	10-Minutes
Purging Pump:	Gilair Plus (or equal)		Purge Volume:	2-Liters
Pump Flow Rate*:	0.2	L/min	Purged Vapor PID:	68.1 ppm
			Helium Concentration:	ND %

Sample Identification

Soil Vapor Point ID:	SV-03	SUMMA® Canister ID:	3348
Flow Controller ID:	3300	Soil Vapor Sample ID:	SV-03_20190712

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	10:00	-26	ND	
Time Halfway:	11:00	-15	ND	
Time Stopped:	12:10	-7	ND	

Notes:	*Purge flow rate not to exceed 0.2 L/min.		
	ND = non-detect ppm = parts per million L/min = Liters per minute		
	Sub-slab vapor point installed due to shallow watertable below existing cellar slab.		
	Soil vapor sample SV-03_20190712 collected in a 6-L SUMMA® canister using a 2-hour flow controller.		



Soil Vapor Sample Log

AKRF Project No:	190204	Point Installed By:	Cascade Technical Services
Project Location:	521 East Tremont Avenue	Installation Method:	Geoprobe Direct Probe Push
Client:	M521 Tremont LLC	Sampled By:	J. Menken, AKRF
Date:	7/10/2019	Weather:	80°F, Sunny
Sample Setup			
Vapor Point Depth:	72	Inches	Total Time of Purge: 10-Minutes
Purging Pump:	Gilair Plus (or equal)		Purge Volume: 2-Liters
Pump Flow Rate*:	0.2	L/min	Purged Vapor PID: 34.3 ppm
			Helium Concentration: ND %
Sample Identification			
Soil Vapor Point ID:	SV-04	SUMMA® Canister ID:	5076
Flow Controller ID:	4048	Soil Vapor Sample ID:	SV-04_20190710
Sample Collection			
Time		Vacuum (in/Hg)	Background PID
Notes			
Time Started:	14:25	-29	ND
Time Halfway:	15:25	-16.5	ND
Time Stopped:	16:25	-5	ND
Notes:	*Purge flow rate not to exceed 0.2 L/min.		
	ND = non-detect ppm = parts per million L/min = Liters per minute		
	SV-04 installed above shallow bedrock.		
	Soil vapor sample SV-04_20190710 collected in a 6-L SUMMA® canister using a 2-hour flow controller.		

APPENDIX F
LABORATORY ANALYTICAL DATA

ANALYTICAL REPORT

Eurofins TestAmerica, Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

Laboratory Job ID: 200-49613-1
Laboratory Sample Delivery Group: 200-49613-1
Client Project/Site: 521 East Tremont Avenue

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco



Authorized for release by:
7/19/2019 11:22:10 AM

Kristine Dusablon, Project Manager II
(802)660-1990
kris.dusablon@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Job ID: 200-49613-1

Laboratory: Eurofins TestAmerica, Burlington

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: 521 East Tremont Avenue

Report Number: 200-49613-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 07/13/2019; the samples arrived in good condition.

During the canister pressure check performed upon receipt, it was observed that sample SV-03_20190712 (200-49613-4) was received at an elevated residual vacuum level. The associated flow controller was evaluated upon receipt and was found to be outside the acceptable flow range as compared to the original set flow rate. The laboratory was able to proceed with analysis.

VOLATILE ORGANIC COMPOUNDS

Samples SV-02_20190710 (200-49613-1), SV-01_20190710 (200-49613-2), SV-04_20190710 (200-49613-3) and SV-03_20190712 (200-49613-4) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 07/17/2019.

Samples SV-02_20190710 (200-49613-1)[34.77X], SV-02_20190710 (200-49613-1)[7X], SV-01_20190710 (200-49613-2)[10.42X], SV-01_20190710 (200-49613-2)[52.1X], SV-04_20190710 (200-49613-3)[46.9X], SV-04_20190710 (200-49613-3)[9.02X] and SV-03_20190712 (200-49613-4)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	2.1	J	3.1	1.0	ug/m3	7		TO-15	Total/NA
Trichlorofluoromethane	23		7.9	2.4	ug/m3	7		TO-15	Total/NA
Acetone	1000	E	83	43	ug/m3	7		TO-15	Total/NA
n-Hexane	10		4.9	3.9	ug/m3	7		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	22		10	4.1	ug/m3	7		TO-15	Total/NA
cis-1,2-Dichloroethene	34		0.97	1.0	ug/m3	7		TO-15	Total/NA
Chloroform	11		6.8	1.8	ug/m3	7		TO-15	Total/NA
Benzene	3.0	J	4.5	1.6	ug/m3	7		TO-15	Total/NA
n-Heptane	8.1		5.7	4.0	ug/m3	7		TO-15	Total/NA
Trichloroethene	22		1.3	1.1	ug/m3	7		TO-15	Total/NA
Toluene	68		5.3	1.8	ug/m3	7		TO-15	Total/NA
Tetrachloroethene	150		9.5	1.4	ug/m3	7		TO-15	Total/NA
Ethylbenzene	8.6		6.1	2.2	ug/m3	7		TO-15	Total/NA
m,p-Xylene	25		15	2.1	ug/m3	7		TO-15	Total/NA
o-Xylene	10		6.1	2.2	ug/m3	7		TO-15	Total/NA
n-Propylbenzene	3.8	J	6.9	2.4	ug/m3	7		TO-15	Total/NA
4-Ethyltoluene	6.0	J	6.9	2.4	ug/m3	7		TO-15	Total/NA
1,3,5-Trimethylbenzene	5.0	J	6.9	2.0	ug/m3	7		TO-15	Total/NA
1,2,4-Trimethylbenzene	16		6.9	2.8	ug/m3	7		TO-15	Total/NA
Trichlorofluoromethane - DL	23	J D	39	12	ug/m3		34.77	TO-15	Total/NA
Acetone - DL	1100	D	410	210	ug/m3		34.77	TO-15	Total/NA
n-Hexane - DL	23	J D	25	20	ug/m3		34.77	TO-15	Total/NA
cis-1,2-Dichloroethene - DL	34	D	4.8	5.1	ug/m3		34.77	TO-15	Total/NA
Trichloroethene - DL	22	D	6.5	5.6	ug/m3		34.77	TO-15	Total/NA
Toluene - DL	70	D	26	9.0	ug/m3		34.77	TO-15	Total/NA
Tetrachloroethene - DL	160	D	47	6.8	ug/m3		34.77	TO-15	Total/NA
Ethylbenzene - DL	11	J D	30	11	ug/m3		34.77	TO-15	Total/NA
m,p-Xylene - DL	26	J D	75	11	ug/m3		34.77	TO-15	Total/NA
o-Xylene - DL	12	J D	30	11	ug/m3		34.77	TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	16	J D	34	14	ug/m3		34.77	TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,3-Butadiene	0.95	J	1.4	0.46	ppb v/v	7		TO-15	Total/NA
Trichlorofluoromethane	4.1		1.4	0.43	ppb v/v	7		TO-15	Total/NA
Acetone	430	E	35	18	ppb v/v	7		TO-15	Total/NA
n-Hexane	2.9		1.4	1.1	ppb v/v	7		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	7.4		3.5	1.4	ppb v/v	7		TO-15	Total/NA
cis-1,2-Dichloroethene	8.6		0.25	0.26	ppb v/v	7		TO-15	Total/NA
Chloroform	2.3		1.4	0.36	ppb v/v	7		TO-15	Total/NA
Benzene	0.92	J	1.4	0.50	ppb v/v	7		TO-15	Total/NA
n-Heptane	2.0		1.4	0.98	ppb v/v	7		TO-15	Total/NA
Trichloroethene	4.1		0.24	0.21	ppb v/v	7		TO-15	Total/NA
Toluene	18		1.4	0.48	ppb v/v	7		TO-15	Total/NA
Tetrachloroethene	23		1.4	0.20	ppb v/v	7		TO-15	Total/NA
Ethylbenzene	2.0		1.4	0.51	ppb v/v	7		TO-15	Total/NA
m,p-Xylene	5.7		3.5	0.49	ppb v/v	7		TO-15	Total/NA
o-Xylene	2.3		1.4	0.50	ppb v/v	7		TO-15	Total/NA
n-Propylbenzene	0.78	J	1.4	0.48	ppb v/v	7		TO-15	Total/NA
4-Ethyltoluene	1.2	J	1.4	0.48	ppb v/v	7		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.0	J	1.4	0.41	ppb v/v	7		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.2		1.4	0.56	ppb v/v	7		TO-15	Total/NA
Trichlorofluoromethane - DL	4.0	J D	7.0	2.2	ppb v/v		34.77	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710 (Continued)

Lab Sample ID: 200-49613-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone - DL	450	D	170	90	ppb v/v	34.77		TO-15	Total/NA
n-Hexane - DL	6.4	J D	7.0	5.6	ppb v/v	34.77		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	8.5	D	1.2	1.3	ppb v/v	34.77		TO-15	Total/NA
Trichloroethene - DL	4.0	D	1.2	1.0	ppb v/v	34.77		TO-15	Total/NA
Toluene - DL	19	D	7.0	2.4	ppb v/v	34.77		TO-15	Total/NA
Tetrachloroethene - DL	23	D	7.0	1.0	ppb v/v	34.77		TO-15	Total/NA
Ethylbenzene - DL	2.6	J D	7.0	2.5	ppb v/v	34.77		TO-15	Total/NA
m,p-Xylene - DL	5.9	J D	17	2.4	ppb v/v	34.77		TO-15	Total/NA
o-Xylene - DL	2.8	J D	7.0	2.5	ppb v/v	34.77		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	3.2	J D	7.0	2.8	ppb v/v	34.77		TO-15	Total/NA

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	110		12	3.6	ug/m3	10.42		TO-15	Total/NA
Acetone	1700	E	120	64	ug/m3	10.42		TO-15	Total/NA
n-Hexane	6.7	J	7.3	5.9	ug/m3	10.42		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	47		15	6.1	ug/m3	10.42		TO-15	Total/NA
Chloroform	9.5	J	10	2.6	ug/m3	10.42		TO-15	Total/NA
Benzene	2.4	J	6.7	2.4	ug/m3	10.42		TO-15	Total/NA
Trichloroethene	6.4		2.0	1.7	ug/m3	10.42		TO-15	Total/NA
Toluene	60		7.9	2.7	ug/m3	10.42		TO-15	Total/NA
Tetrachloroethene	100		14	2.0	ug/m3	10.42		TO-15	Total/NA
Ethylbenzene	6.2	J	9.0	3.3	ug/m3	10.42		TO-15	Total/NA
m,p-Xylene	8.9	J	23	3.2	ug/m3	10.42		TO-15	Total/NA
o-Xylene	3.9	J	9.0	3.2	ug/m3	10.42		TO-15	Total/NA
Trichlorofluoromethane - DL	110	D	59	18	ug/m3	52.1		TO-15	Total/NA
Acetone - DL	1800	D	620	320	ug/m3	52.1		TO-15	Total/NA
Toluene - DL	63	D	39	14	ug/m3	52.1		TO-15	Total/NA
Tetrachloroethene - DL	100	D	71	10	ug/m3	52.1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	19		2.1	0.65	ppb v/v	10.42		TO-15	Total/NA
Acetone	740	E	52	27	ppb v/v	10.42		TO-15	Total/NA
n-Hexane	1.9	J	2.1	1.7	ppb v/v	10.42		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	16		5.2	2.1	ppb v/v	10.42		TO-15	Total/NA
Chloroform	1.9	J	2.1	0.54	ppb v/v	10.42		TO-15	Total/NA
Benzene	0.75	J	2.1	0.74	ppb v/v	10.42		TO-15	Total/NA
Trichloroethene	1.2		0.36	0.31	ppb v/v	10.42		TO-15	Total/NA
Toluene	16		2.1	0.72	ppb v/v	10.42		TO-15	Total/NA
Tetrachloroethene	15		2.1	0.30	ppb v/v	10.42		TO-15	Total/NA
Ethylbenzene	1.4	J	2.1	0.76	ppb v/v	10.42		TO-15	Total/NA
m,p-Xylene	2.0	J	5.2	0.73	ppb v/v	10.42		TO-15	Total/NA
o-Xylene	0.90	J	2.1	0.74	ppb v/v	10.42		TO-15	Total/NA
Trichlorofluoromethane - DL	19	D	10	3.2	ppb v/v	52.1		TO-15	Total/NA
Acetone - DL	760	D	260	140	ppb v/v	52.1		TO-15	Total/NA
Toluene - DL	17	D	10	3.6	ppb v/v	52.1		TO-15	Total/NA
Tetrachloroethene - DL	15	D	10	1.5	ppb v/v	52.1		TO-15	Total/NA

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	1600	E	110	56	ug/m3	9.02		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710 (Continued)

Lab Sample ID: 200-49613-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	7.2		6.4	5.1	ug/m3	9.02		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	40		13	5.3	ug/m3	9.02		TO-15	Total/NA
Benzene	5.3	J	5.8	2.0	ug/m3	9.02		TO-15	Total/NA
n-Heptane	6.7	J	7.4	5.2	ug/m3	9.02		TO-15	Total/NA
Toluene	81		6.8	2.3	ug/m3	9.02		TO-15	Total/NA
Tetrachloroethene	1.8	J	12	1.8	ug/m3	9.02		TO-15	Total/NA
Ethylbenzene	10		7.8	2.9	ug/m3	9.02		TO-15	Total/NA
m,p-Xylene	29		20	2.7	ug/m3	9.02		TO-15	Total/NA
o-Xylene	13		7.8	2.8	ug/m3	9.02		TO-15	Total/NA
n-Propylbenzene	4.0	J	8.9	3.1	ug/m3	9.02		TO-15	Total/NA
4-Ethyltoluene	4.6	J	8.9	3.1	ug/m3	9.02		TO-15	Total/NA
1,3,5-Trimethylbenzene	3.6	J	8.9	2.6	ug/m3	9.02		TO-15	Total/NA
1,2,4-Trimethylbenzene	15		8.9	3.5	ug/m3	9.02		TO-15	Total/NA
Naphthalene	17	J	24	15	ug/m3	9.02		TO-15	Total/NA
Acetone - DL	1500	D	560	290	ug/m3	46.9		TO-15	Total/NA
n-Hexane - DL	26	J D	33	26	ug/m3	46.9		TO-15	Total/NA
Toluene - DL	83	D	35	12	ug/m3	46.9		TO-15	Total/NA
m,p-Xylene - DL	29	J D	100	14	ug/m3	46.9		TO-15	Total/NA
o-Xylene - DL	16	J D	41	14	ug/m3	46.9		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	660	E	45	23	ppb v/v	9.02		TO-15	Total/NA
n-Hexane	2.0		1.8	1.4	ppb v/v	9.02		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	14		4.5	1.8	ppb v/v	9.02		TO-15	Total/NA
Benzene	1.7	J	1.8	0.64	ppb v/v	9.02		TO-15	Total/NA
n-Heptane	1.6	J	1.8	1.3	ppb v/v	9.02		TO-15	Total/NA
Toluene	21		1.8	0.62	ppb v/v	9.02		TO-15	Total/NA
Tetrachloroethene	0.27	J	1.8	0.26	ppb v/v	9.02		TO-15	Total/NA
Ethylbenzene	2.4		1.8	0.66	ppb v/v	9.02		TO-15	Total/NA
m,p-Xylene	6.6		4.5	0.63	ppb v/v	9.02		TO-15	Total/NA
o-Xylene	3.0		1.8	0.64	ppb v/v	9.02		TO-15	Total/NA
n-Propylbenzene	0.81	J	1.8	0.62	ppb v/v	9.02		TO-15	Total/NA
4-Ethyltoluene	0.94	J	1.8	0.62	ppb v/v	9.02		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.74	J	1.8	0.52	ppb v/v	9.02		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.0		1.8	0.72	ppb v/v	9.02		TO-15	Total/NA
Naphthalene	3.3	J	4.5	2.8	ppb v/v	9.02		TO-15	Total/NA
Acetone - DL	650	D	230	120	ppb v/v	46.9		TO-15	Total/NA
n-Hexane - DL	7.3	J D	9.4	7.5	ppb v/v	46.9		TO-15	Total/NA
Toluene - DL	22	D	9.4	3.2	ppb v/v	46.9		TO-15	Total/NA
m,p-Xylene - DL	6.7	J D	23	3.3	ppb v/v	46.9		TO-15	Total/NA
o-Xylene - DL	3.6	J D	9.4	3.3	ppb v/v	46.9		TO-15	Total/NA

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	8.6		2.5	0.99	ug/m3	1		TO-15	Total/NA
n-Butane	40		1.2	0.74	ug/m3	1		TO-15	Total/NA
Vinyl chloride	0.30		0.090	0.10	ug/m3	1		TO-15	Total/NA
1,3-Butadiene	0.49		0.44	0.14	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	2.2		1.1	0.35	ug/m3	1		TO-15	Total/NA
Acetone	100	E	12	6.2	ug/m3	1		TO-15	Total/NA
Carbon disulfide	100		1.6	0.37	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712 (Continued)

Lab Sample ID: 200-49613-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	110		0.70	0.56	ug/m3	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	13		1.5	0.59	ug/m3	1		TO-15	Total/NA
cis-1,2-Dichloroethene	6.7		0.14	0.15	ug/m3	1		TO-15	Total/NA
Chloroform	11		0.98	0.25	ug/m3	1		TO-15	Total/NA
Cyclohexane	140	E	0.69	0.22	ug/m3	1		TO-15	Total/NA
Benzene	19		0.64	0.23	ug/m3	1		TO-15	Total/NA
n-Heptane	110		0.82	0.57	ug/m3	1		TO-15	Total/NA
Trichloroethene	18		0.19	0.16	ug/m3	1		TO-15	Total/NA
Toluene	150	E	0.75	0.26	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	38		1.4	0.20	ug/m3	1		TO-15	Total/NA
Ethylbenzene	31		0.87	0.32	ug/m3	1		TO-15	Total/NA
m,p-Xylene	100		2.2	0.30	ug/m3	1		TO-15	Total/NA
o-Xylene	26		0.87	0.31	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	7.4		0.98	0.34	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	5.7		0.98	0.29	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	9.8		0.98	0.39	ug/m3	1		TO-15	Total/NA
4-Isopropyltoluene	1.6		1.1	0.41	ug/m3	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	8.9	D	4.9	2.0	ug/m3	2		TO-15	Total/NA
n-Butane - DL	37	D	2.4	1.5	ug/m3	2		TO-15	Total/NA
Vinyl chloride - DL	0.22	D	0.18	0.21	ug/m3	2		TO-15	Total/NA
1,3-Butadiene - DL	0.43	J D	0.88	0.29	ug/m3	2		TO-15	Total/NA
Trichlorofluoromethane - DL	2.2	D	2.2	0.70	ug/m3	2		TO-15	Total/NA
Acetone - DL	96	D	24	12	ug/m3	2		TO-15	Total/NA
Carbon disulfide - DL	100	D	3.1	0.75	ug/m3	2		TO-15	Total/NA
n-Hexane - DL	100	D	1.4	1.1	ug/m3	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	13	D	2.9	1.2	ug/m3	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	6.8	D	0.28	0.29	ug/m3	2		TO-15	Total/NA
Chloroform - DL	11	D	2.0	0.51	ug/m3	2		TO-15	Total/NA
Cyclohexane - DL	140	D	1.4	0.43	ug/m3	2		TO-15	Total/NA
Benzene - DL	20	D	1.3	0.45	ug/m3	2		TO-15	Total/NA
n-Heptane - DL	100	D	1.6	1.1	ug/m3	2		TO-15	Total/NA
Trichloroethene - DL	19	D	0.38	0.32	ug/m3	2		TO-15	Total/NA
Toluene - DL	180	D	1.5	0.52	ug/m3	2		TO-15	Total/NA
Tetrachloroethene - DL	45	D	2.7	0.39	ug/m3	2		TO-15	Total/NA
Ethylbenzene - DL	36	D	1.7	0.63	ug/m3	2		TO-15	Total/NA
m,p-Xylene - DL	120	D	4.3	0.61	ug/m3	2		TO-15	Total/NA
o-Xylene - DL	30	D	1.7	0.62	ug/m3	2		TO-15	Total/NA
4-Ethyltoluene - DL	8.9	D	2.0	0.68	ug/m3	2		TO-15	Total/NA
1,3,5-Trimethylbenzene - DL	6.6	D	2.0	0.57	ug/m3	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	11	D	2.0	0.79	ug/m3	2		TO-15	Total/NA
4-Isopropyltoluene - DL	1.9	J D	2.2	0.82	ug/m3	2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.7		0.50	0.20	ppb v/v	1		TO-15	Total/NA
n-Butane	17		0.50	0.31	ppb v/v	1		TO-15	Total/NA
Vinyl chloride	0.12		0.035	0.041	ppb v/v	1		TO-15	Total/NA
1,3-Butadiene	0.22		0.20	0.065	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.39		0.20	0.062	ppb v/v	1		TO-15	Total/NA
Acetone	42	E	5.0	2.6	ppb v/v	1		TO-15	Total/NA
Carbon disulfide	33		0.50	0.12	ppb v/v	1		TO-15	Total/NA
n-Hexane	30		0.20	0.16	ppb v/v	1		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone)	4.3		0.50	0.20	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712 (Continued)

Lab Sample ID: 200-49613-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		0.035	0.037	ppb v/v	1		TO-15	Total/NA
Chloroform	2.3		0.20	0.052	ppb v/v	1		TO-15	Total/NA
Cyclohexane	40	E	0.20	0.063	ppb v/v	1		TO-15	Total/NA
Benzene	6.1		0.20	0.071	ppb v/v	1		TO-15	Total/NA
n-Heptane	26		0.20	0.14	ppb v/v	1		TO-15	Total/NA
Trichloroethene	3.4		0.035	0.030	ppb v/v	1		TO-15	Total/NA
Toluene	41	E	0.20	0.069	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	5.6		0.20	0.029	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	7.2		0.20	0.073	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	24		0.50	0.070	ppb v/v	1		TO-15	Total/NA
o-Xylene	5.9		0.20	0.071	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	1.5		0.20	0.069	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.2		0.20	0.058	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.0		0.20	0.080	ppb v/v	1		TO-15	Total/NA
4-Isopropyltoluene	0.30		0.20	0.075	ppb v/v	1		TO-15	Total/NA
Dichlorodifluoromethane - DL	1.8	D	1.0	0.40	ppb v/v	2		TO-15	Total/NA
n-Butane - DL	15	D	1.0	0.62	ppb v/v	2		TO-15	Total/NA
Vinyl chloride - DL	0.087	D	0.070	0.082	ppb v/v	2		TO-15	Total/NA
1,3-Butadiene - DL	0.19	J D	0.40	0.13	ppb v/v	2		TO-15	Total/NA
Trichlorofluoromethane - DL	0.39	D	0.40	0.12	ppb v/v	2		TO-15	Total/NA
Acetone - DL	41	D	10	5.2	ppb v/v	2		TO-15	Total/NA
Carbon disulfide - DL	33	D	1.0	0.24	ppb v/v	2		TO-15	Total/NA
n-Hexane - DL	30	D	0.40	0.32	ppb v/v	2		TO-15	Total/NA
Methyl Ethyl Ketone (2-Butanone) - DL	4.5	D	1.0	0.40	ppb v/v	2		TO-15	Total/NA
cis-1,2-Dichloroethene - DL	1.7	D	0.070	0.074	ppb v/v	2		TO-15	Total/NA
Chloroform - DL	2.2	D	0.40	0.10	ppb v/v	2		TO-15	Total/NA
Cyclohexane - DL	41	D	0.40	0.13	ppb v/v	2		TO-15	Total/NA
Benzene - DL	6.2	D	0.40	0.14	ppb v/v	2		TO-15	Total/NA
n-Heptane - DL	25	D	0.40	0.28	ppb v/v	2		TO-15	Total/NA
Trichloroethene - DL	3.5	D	0.070	0.060	ppb v/v	2		TO-15	Total/NA
Toluene - DL	46	D	0.40	0.14	ppb v/v	2		TO-15	Total/NA
Tetrachloroethene - DL	6.7	D	0.40	0.058	ppb v/v	2		TO-15	Total/NA
Ethylbenzene - DL	8.4	D	0.40	0.15	ppb v/v	2		TO-15	Total/NA
m,p-Xylene - DL	27	D	1.0	0.14	ppb v/v	2		TO-15	Total/NA
o-Xylene - DL	6.9	D	0.40	0.14	ppb v/v	2		TO-15	Total/NA
4-Ethyltoluene - DL	1.8	D	0.40	0.14	ppb v/v	2		TO-15	Total/NA
1,3,5-Trimethylbenzene - DL	1.3	D	0.40	0.12	ppb v/v	2		TO-15	Total/NA
1,2,4-Trimethylbenzene - DL	2.3	D	0.40	0.16	ppb v/v	2		TO-15	Total/NA
4-Isopropyltoluene - DL	0.35	J D	0.40	0.15	ppb v/v	2		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	17	U	17	6.9	ug/m3			07/17/19 00:54	7
Chlorodifluoromethane	12	U	12	6.4	ug/m3			07/17/19 00:54	7
1,2-Dichlorotetrafluoroethane	9.8	U	9.8	3.3	ug/m3			07/17/19 00:54	7
Chloromethane	7.2	U	7.2	3.6	ug/m3			07/17/19 00:54	7
n-Butane	8.3	U	8.3	5.2	ug/m3			07/17/19 00:54	7
Vinyl chloride	0.63	U	0.63	0.73	ug/m3			07/17/19 00:54	7
1,3-Butadiene	2.1	J	3.1	1.0	ug/m3			07/17/19 00:54	7
Bromomethane	5.4	U	5.4	1.7	ug/m3			07/17/19 00:54	7
Chloroethane	9.2	U	9.2	3.9	ug/m3			07/17/19 00:54	7
Bromoethene(Vinyl Bromide)	6.1	U	6.1	1.7	ug/m3			07/17/19 00:54	7
Trichlorofluoromethane	23		7.9	2.4	ug/m3			07/17/19 00:54	7
1,1,2-Trichlorotrifluoroethane	11	U	11	1.7	ug/m3			07/17/19 00:54	7
1,1-Dichloroethene	0.97	U	0.97	0.94	ug/m3			07/17/19 00:54	7
Acetone	1000	E	83	43	ug/m3			07/17/19 00:54	7
Isopropyl alcohol	86	U	86	31	ug/m3			07/17/19 00:54	7
Carbon disulfide	11	U	11	2.6	ug/m3			07/17/19 00:54	7
3-Chloropropene	11	U	11	5.9	ug/m3			07/17/19 00:54	7
Methylene Chloride	12	U	12	4.9	ug/m3			07/17/19 00:54	7
tert-Butyl alcohol	110	U	110	32	ug/m3			07/17/19 00:54	7
Methyl tert-butyl ether	5.0	U	5.0	1.5	ug/m3			07/17/19 00:54	7
trans-1,2-Dichloroethene	5.6	U	5.6	2.1	ug/m3			07/17/19 00:54	7
n-Hexane	10		4.9	3.9	ug/m3			07/17/19 00:54	7
1,1-Dichloroethane	5.7	U	5.7	0.74	ug/m3			07/17/19 00:54	7
Methyl Ethyl Ketone (2-Butanone)	22		10	4.1	ug/m3			07/17/19 00:54	7
cis-1,2-Dichloroethene	34		0.97	1.0	ug/m3			07/17/19 00:54	7
Chloroform	11		6.8	1.8	ug/m3			07/17/19 00:54	7
Tetrahydrofuran	100	U	100	54	ug/m3			07/17/19 00:54	7
1,1,1-Trichloroethane	7.6	U	7.6	2.6	ug/m3			07/17/19 00:54	7
Cyclohexane	4.8	U	4.8	1.5	ug/m3			07/17/19 00:54	7
Carbon tetrachloride	1.5	U	1.5	1.1	ug/m3			07/17/19 00:54	7
2,2,4-Trimethylpentane	6.5	U	6.5	2.9	ug/m3			07/17/19 00:54	7
Benzene	3.0	J	4.5	1.6	ug/m3			07/17/19 00:54	7
1,2-Dichloroethane	5.7	U	5.7	1.8	ug/m3			07/17/19 00:54	7
n-Heptane	8.1		5.7	4.0	ug/m3			07/17/19 00:54	7
Trichloroethene	22		1.3	1.1	ug/m3			07/17/19 00:54	7
Methyl methacrylate	14	U	14	6.3	ug/m3			07/17/19 00:54	7
1,2-Dichloropropane	6.5	U	6.5	3.9	ug/m3			07/17/19 00:54	7
1,4-Dioxane	130	U	130	33	ug/m3			07/17/19 00:54	7
Bromodichloromethane	9.4	U	9.4	4.4	ug/m3			07/17/19 00:54	7
cis-1,3-Dichloropropene	6.4	U	6.4	3.1	ug/m3			07/17/19 00:54	7
4-Methyl-2-pentanone (Methyl isobutyl ketone)	14	U	14	10	ug/m3			07/17/19 00:54	7
Toluene	68		5.3	1.8	ug/m3			07/17/19 00:54	7
trans-1,3-Dichloropropene	6.4	U	6.4	3.8	ug/m3			07/17/19 00:54	7
1,1,2-Trichloroethane	7.6	U	7.6	3.0	ug/m3			07/17/19 00:54	7
Tetrachloroethene	150		9.5	1.4	ug/m3			07/17/19 00:54	7
Methyl Butyl Ketone (2-Hexanone)	14	U	14	12	ug/m3			07/17/19 00:54	7
Dibromochloromethane	12	U	12	4.2	ug/m3			07/17/19 00:54	7
1,2-Dibromoethane	11	U	11	3.7	ug/m3			07/17/19 00:54	7

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	6.4	U	6.4	1.3	ug/m3			07/17/19 00:54	7
Ethylbenzene	8.6		6.1	2.2	ug/m3			07/17/19 00:54	7
m,p-Xylene	25		15	2.1	ug/m3			07/17/19 00:54	7
o-Xylene	10		6.1	2.2	ug/m3			07/17/19 00:54	7
Styrene	6.0	U	6.0	2.6	ug/m3			07/17/19 00:54	7
Bromoform	14	U	14	6.2	ug/m3			07/17/19 00:54	7
Cumene	6.9	U	6.9	2.0	ug/m3			07/17/19 00:54	7
1,1,2,2-Tetrachloroethane	9.6	U	9.6	3.7	ug/m3			07/17/19 00:54	7
n-Propylbenzene	3.8	J	6.9	2.4	ug/m3			07/17/19 00:54	7
4-Ethyltoluene	6.0	J	6.9	2.4	ug/m3			07/17/19 00:54	7
1,3,5-Trimethylbenzene	5.0	J	6.9	2.0	ug/m3			07/17/19 00:54	7
2-Chlorotoluene	7.2	U	7.2	2.6	ug/m3			07/17/19 00:54	7
tert-Butylbenzene	7.7	U	7.7	2.2	ug/m3			07/17/19 00:54	7
1,2,4-Trimethylbenzene	16		6.9	2.8	ug/m3			07/17/19 00:54	7
sec-Butylbenzene	7.7	U	7.7	2.5	ug/m3			07/17/19 00:54	7
4-Isopropyltoluene	7.7	U	7.7	2.9	ug/m3			07/17/19 00:54	7
1,3-Dichlorobenzene	8.4	U	8.4	3.5	ug/m3			07/17/19 00:54	7
1,4-Dichlorobenzene	8.4	U	8.4	2.7	ug/m3			07/17/19 00:54	7
Benzyl chloride	7.2	U	7.2	4.3	ug/m3			07/17/19 00:54	7
n-Butylbenzene	7.7	U	7.7	3.1	ug/m3			07/17/19 00:54	7
1,2-Dichlorobenzene	8.4	U	8.4	3.0	ug/m3			07/17/19 00:54	7
1,2,4-Trichlorobenzene	26	U	26	12	ug/m3			07/17/19 00:54	7
Hexachlorobutadiene	15	U	15	6.1	ug/m3			07/17/19 00:54	7
Naphthalene	18	U	18	11	ug/m3			07/17/19 00:54	7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.5	U	3.5	1.4	ppb v/v			07/17/19 00:54	7
Chlorodifluoromethane	3.5	U	3.5	1.8	ppb v/v			07/17/19 00:54	7
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ppb v/v			07/17/19 00:54	7
Chloromethane	3.5	U	3.5	1.8	ppb v/v			07/17/19 00:54	7
n-Butane	3.5	U	3.5	2.2	ppb v/v			07/17/19 00:54	7
Vinyl chloride	0.25	U	0.25	0.29	ppb v/v			07/17/19 00:54	7
1,3-Butadiene	0.95	J	1.4	0.46	ppb v/v			07/17/19 00:54	7
Bromomethane	1.4	U	1.4	0.43	ppb v/v			07/17/19 00:54	7
Chloroethane	3.5	U	3.5	1.5	ppb v/v			07/17/19 00:54	7
Bromoethene(Vinyl Bromide)	1.4	U	1.4	0.39	ppb v/v			07/17/19 00:54	7
Trichlorofluoromethane	4.1		1.4	0.43	ppb v/v			07/17/19 00:54	7
1,1,2-Trichlorotrifluoroethane	1.4	U	1.4	0.22	ppb v/v			07/17/19 00:54	7
1,1-Dichloroethene	0.25	U	0.25	0.24	ppb v/v			07/17/19 00:54	7
Acetone	430	E	35	18	ppb v/v			07/17/19 00:54	7
Isopropyl alcohol	35	U	35	13	ppb v/v			07/17/19 00:54	7
Carbon disulfide	3.5	U	3.5	0.84	ppb v/v			07/17/19 00:54	7
3-Chloropropene	3.5	U	3.5	1.9	ppb v/v			07/17/19 00:54	7
Methylene Chloride	3.5	U	3.5	1.4	ppb v/v			07/17/19 00:54	7
tert-Butyl alcohol	35	U	35	11	ppb v/v			07/17/19 00:54	7
Methyl tert-butyl ether	1.4	U	1.4	0.43	ppb v/v			07/17/19 00:54	7
trans-1,2-Dichloroethene	1.4	U	1.4	0.52	ppb v/v			07/17/19 00:54	7
n-Hexane	2.9		1.4	1.1	ppb v/v			07/17/19 00:54	7
1,1-Dichloroethane	1.4	U	1.4	0.18	ppb v/v			07/17/19 00:54	7

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
 SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	7.4		3.5	1.4	ppb v/v			07/17/19 00:54	7
cis-1,2-Dichloroethene	8.6		0.25	0.26	ppb v/v			07/17/19 00:54	7
Chloroform	2.3		1.4	0.36	ppb v/v			07/17/19 00:54	7
Tetrahydrofuran	35	U	35	18	ppb v/v			07/17/19 00:54	7
1,1,1-Trichloroethane	1.4	U	1.4	0.48	ppb v/v			07/17/19 00:54	7
Cyclohexane	1.4	U	1.4	0.44	ppb v/v			07/17/19 00:54	7
Carbon tetrachloride	0.24	U	0.24	0.17	ppb v/v			07/17/19 00:54	7
2,2,4-Trimethylpentane	1.4	U	1.4	0.62	ppb v/v			07/17/19 00:54	7
Benzene	0.92	J	1.4	0.50	ppb v/v			07/17/19 00:54	7
1,2-Dichloroethane	1.4	U	1.4	0.44	ppb v/v			07/17/19 00:54	7
n-Heptane	2.0		1.4	0.98	ppb v/v			07/17/19 00:54	7
Trichloroethene	4.1		0.24	0.21	ppb v/v			07/17/19 00:54	7
Methyl methacrylate	3.5	U	3.5	1.5	ppb v/v			07/17/19 00:54	7
1,2-Dichloropropane	1.4	U	1.4	0.84	ppb v/v			07/17/19 00:54	7
1,4-Dioxane	35	U	35	9.1	ppb v/v			07/17/19 00:54	7
Bromodichloromethane	1.4	U	1.4	0.66	ppb v/v			07/17/19 00:54	7
cis-1,3-Dichloropropene	1.4	U	1.4	0.69	ppb v/v			07/17/19 00:54	7
4-Methyl-2-pentanone (Methyl isobutyl ketone)	3.5	U	3.5	2.5	ppb v/v			07/17/19 00:54	7
Toluene	18		1.4	0.48	ppb v/v			07/17/19 00:54	7
trans-1,3-Dichloropropene	1.4	U	1.4	0.84	ppb v/v			07/17/19 00:54	7
1,1,2-Trichloroethane	1.4	U	1.4	0.55	ppb v/v			07/17/19 00:54	7
Tetrachloroethene	23		1.4	0.20	ppb v/v			07/17/19 00:54	7
Methyl Butyl Ketone (2-Hexanone)	3.5	U	3.5	2.9	ppb v/v			07/17/19 00:54	7
Dibromochloromethane	1.4	U	1.4	0.50	ppb v/v			07/17/19 00:54	7
1,2-Dibromoethane	1.4	U	1.4	0.48	ppb v/v			07/17/19 00:54	7
Chlorobenzene	1.4	U	1.4	0.28	ppb v/v			07/17/19 00:54	7
Ethylbenzene	2.0		1.4	0.51	ppb v/v			07/17/19 00:54	7
m,p-Xylene	5.7		3.5	0.49	ppb v/v			07/17/19 00:54	7
o-Xylene	2.3		1.4	0.50	ppb v/v			07/17/19 00:54	7
Styrene	1.4	U	1.4	0.60	ppb v/v			07/17/19 00:54	7
Bromoform	1.4	U	1.4	0.60	ppb v/v			07/17/19 00:54	7
Cumene	1.4	U	1.4	0.41	ppb v/v			07/17/19 00:54	7
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.53	ppb v/v			07/17/19 00:54	7
n-Propylbenzene	0.78	J	1.4	0.48	ppb v/v			07/17/19 00:54	7
4-Ethyltoluene	1.2	J	1.4	0.48	ppb v/v			07/17/19 00:54	7
1,3,5-Trimethylbenzene	1.0	J	1.4	0.41	ppb v/v			07/17/19 00:54	7
2-Chlorotoluene	1.4	U	1.4	0.50	ppb v/v			07/17/19 00:54	7
tert-Butylbenzene	1.4	U	1.4	0.41	ppb v/v			07/17/19 00:54	7
1,2,4-Trimethylbenzene	3.2		1.4	0.56	ppb v/v			07/17/19 00:54	7
sec-Butylbenzene	1.4	U	1.4	0.46	ppb v/v			07/17/19 00:54	7
4-Isopropyltoluene	1.4	U	1.4	0.53	ppb v/v			07/17/19 00:54	7
1,3-Dichlorobenzene	1.4	U	1.4	0.57	ppb v/v			07/17/19 00:54	7
1,4-Dichlorobenzene	1.4	U	1.4	0.46	ppb v/v			07/17/19 00:54	7
Benzyl chloride	1.4	U	1.4	0.84	ppb v/v			07/17/19 00:54	7
n-Butylbenzene	1.4	U	1.4	0.56	ppb v/v			07/17/19 00:54	7
1,2-Dichlorobenzene	1.4	U	1.4	0.50	ppb v/v			07/17/19 00:54	7
1,2,4-Trichlorobenzene	3.5	U	3.5	1.7	ppb v/v			07/17/19 00:54	7
Hexachlorobutadiene	1.4	U	1.4	0.57	ppb v/v			07/17/19 00:54	7

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	3.5	U	3.5	2.2	ppb v/v			07/17/19 00:54	7

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	86	U	86	34	ug/m3			07/17/19 01:47	34.77
Chlorodifluoromethane	61	U	61	32	ug/m3			07/17/19 01:47	34.77
1,2-Dichlorotetrafluoroethane	49	U	49	17	ug/m3			07/17/19 01:47	34.77
Chloromethane	36	U	36	18	ug/m3			07/17/19 01:47	34.77
n-Butane	41	U	41	26	ug/m3			07/17/19 01:47	34.77
Vinyl chloride	3.1	U	3.1	3.6	ug/m3			07/17/19 01:47	34.77
1,3-Butadiene	15	U	15	5.0	ug/m3			07/17/19 01:47	34.77
Bromomethane	27	U	27	8.4	ug/m3			07/17/19 01:47	34.77
Chloroethane	46	U	46	19	ug/m3			07/17/19 01:47	34.77
Bromoethene(Vinyl Bromide)	30	U	30	8.5	ug/m3			07/17/19 01:47	34.77
Trichlorofluoromethane	23	J D	39	12	ug/m3			07/17/19 01:47	34.77
1,1,2-Trichlorotrifluoroethane	53	U	53	8.3	ug/m3			07/17/19 01:47	34.77
1,1-Dichloroethene	4.8	U	4.8	4.7	ug/m3			07/17/19 01:47	34.77
Acetone	1100	D	410	210	ug/m3			07/17/19 01:47	34.77
Isopropyl alcohol	430	U	430	150	ug/m3			07/17/19 01:47	34.77
Carbon disulfide	54	U	54	13	ug/m3			07/17/19 01:47	34.77
3-Chloropropene	54	U	54	29	ug/m3			07/17/19 01:47	34.77
Methylene Chloride	60	U	60	24	ug/m3			07/17/19 01:47	34.77
tert-Butyl alcohol	530	U	530	160	ug/m3			07/17/19 01:47	34.77
Methyl tert-butyl ether	25	U	25	7.6	ug/m3			07/17/19 01:47	34.77
trans-1,2-Dichloroethene	28	U	28	10	ug/m3			07/17/19 01:47	34.77
n-Hexane	23	J D	25	20	ug/m3			07/17/19 01:47	34.77
1,1-Dichloroethane	28	U	28	3.7	ug/m3			07/17/19 01:47	34.77
Methyl Ethyl Ketone (2-Butanone)	51	U	51	21	ug/m3			07/17/19 01:47	34.77
cis-1,2-Dichloroethene	34	D	4.8	5.1	ug/m3			07/17/19 01:47	34.77
Chloroform	34	U	34	8.8	ug/m3			07/17/19 01:47	34.77
Tetrahydrofuran	510	U	510	270	ug/m3			07/17/19 01:47	34.77
1,1,1-Trichloroethane	38	U	38	13	ug/m3			07/17/19 01:47	34.77
Cyclohexane	24	U	24	7.5	ug/m3			07/17/19 01:47	34.77
Carbon tetrachloride	7.6	U	7.6	5.2	ug/m3			07/17/19 01:47	34.77
2,2,4-Trimethylpentane	32	U	32	14	ug/m3			07/17/19 01:47	34.77
Benzene	22	U	22	7.9	ug/m3			07/17/19 01:47	34.77
1,2-Dichloroethane	28	U	28	8.9	ug/m3			07/17/19 01:47	34.77
n-Heptane	29	U	29	20	ug/m3			07/17/19 01:47	34.77
Trichloroethene	22	D	6.5	5.6	ug/m3			07/17/19 01:47	34.77
Methyl methacrylate	71	U	71	31	ug/m3			07/17/19 01:47	34.77
1,2-Dichloropropane	32	U	32	19	ug/m3			07/17/19 01:47	34.77
1,4-Dioxane	630	U	630	160	ug/m3			07/17/19 01:47	34.77
Bromodichloromethane	47	U	47	22	ug/m3			07/17/19 01:47	34.77
cis-1,3-Dichloropropene	32	U	32	15	ug/m3			07/17/19 01:47	34.77
4-Methyl-2-pentanone (Methyl isobutyl ketone)	71	U	71	51	ug/m3			07/17/19 01:47	34.77
Toluene	70	D	26	9.0	ug/m3			07/17/19 01:47	34.77
trans-1,3-Dichloropropene	32	U	32	19	ug/m3			07/17/19 01:47	34.77
1,1,2-Trichloroethane	38	U	38	15	ug/m3			07/17/19 01:47	34.77

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	160	D	47	6.8	ug/m3			07/17/19 01:47	34.77
Methyl Butyl Ketone (2-Hexanone)	71	U	71	60	ug/m3			07/17/19 01:47	34.77
Dibromochloromethane	59	U	59	21	ug/m3			07/17/19 01:47	34.77
1,2-Dibromoethane	53	U	53	18	ug/m3			07/17/19 01:47	34.77
Chlorobenzene	32	U	32	6.4	ug/m3			07/17/19 01:47	34.77
Ethylbenzene	11	J D	30	11	ug/m3			07/17/19 01:47	34.77
m,p-Xylene	26	J D	75	11	ug/m3			07/17/19 01:47	34.77
o-Xylene	12	J D	30	11	ug/m3			07/17/19 01:47	34.77
Styrene	30	U	30	13	ug/m3			07/17/19 01:47	34.77
Bromoform	72	U	72	31	ug/m3			07/17/19 01:47	34.77
Cumene	34	U	34	10	ug/m3			07/17/19 01:47	34.77
1,1,2,2-Tetrachloroethane	48	U	48	18	ug/m3			07/17/19 01:47	34.77
n-Propylbenzene	34	U	34	12	ug/m3			07/17/19 01:47	34.77
4-Ethyltoluene	34	U	34	12	ug/m3			07/17/19 01:47	34.77
1,3,5-Trimethylbenzene	34	U	34	9.9	ug/m3			07/17/19 01:47	34.77
2-Chlorotoluene	36	U	36	13	ug/m3			07/17/19 01:47	34.77
tert-Butylbenzene	38	U	38	11	ug/m3			07/17/19 01:47	34.77
1,2,4-Trimethylbenzene	16	J D	34	14	ug/m3			07/17/19 01:47	34.77
sec-Butylbenzene	38	U	38	13	ug/m3			07/17/19 01:47	34.77
4-Isopropyltoluene	38	U	38	14	ug/m3			07/17/19 01:47	34.77
1,3-Dichlorobenzene	42	U	42	17	ug/m3			07/17/19 01:47	34.77
1,4-Dichlorobenzene	42	U	42	14	ug/m3			07/17/19 01:47	34.77
Benzyl chloride	36	U	36	22	ug/m3			07/17/19 01:47	34.77
n-Butylbenzene	38	U	38	15	ug/m3			07/17/19 01:47	34.77
1,2-Dichlorobenzene	42	U	42	15	ug/m3			07/17/19 01:47	34.77
1,2,4-Trichlorobenzene	130	U	130	62	ug/m3			07/17/19 01:47	34.77
Hexachlorobutadiene	74	U	74	30	ug/m3			07/17/19 01:47	34.77
Naphthalene	91	U	91	57	ug/m3			07/17/19 01:47	34.77
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	17	U	17	7.0	ppb v/v			07/17/19 01:47	34.77
Chlorodifluoromethane	17	U	17	9.0	ppb v/v			07/17/19 01:47	34.77
1,2-Dichlorotetrafluoroethane	7.0	U	7.0	2.4	ppb v/v			07/17/19 01:47	34.77
Chloromethane	17	U	17	8.7	ppb v/v			07/17/19 01:47	34.77
n-Butane	17	U	17	11	ppb v/v			07/17/19 01:47	34.77
Vinyl chloride	1.2	U	1.2	1.4	ppb v/v			07/17/19 01:47	34.77
1,3-Butadiene	7.0	U	7.0	2.3	ppb v/v			07/17/19 01:47	34.77
Bromomethane	7.0	U	7.0	2.2	ppb v/v			07/17/19 01:47	34.77
Chloroethane	17	U	17	7.3	ppb v/v			07/17/19 01:47	34.77
Bromoethene(Vinyl Bromide)	7.0	U	7.0	1.9	ppb v/v			07/17/19 01:47	34.77
Trichlorofluoromethane	4.0	J D	7.0	2.2	ppb v/v			07/17/19 01:47	34.77
1,1,2-Trichlorotrifluoroethane	7.0	U	7.0	1.1	ppb v/v			07/17/19 01:47	34.77
1,1-Dichloroethene	1.2	U	1.2	1.2	ppb v/v			07/17/19 01:47	34.77
Acetone	450	D	170	90	ppb v/v			07/17/19 01:47	34.77
Isopropyl alcohol	170	U	170	63	ppb v/v			07/17/19 01:47	34.77
Carbon disulfide	17	U	17	4.2	ppb v/v			07/17/19 01:47	34.77
3-Chloropropene	17	U	17	9.4	ppb v/v			07/17/19 01:47	34.77
Methylene Chloride	17	U	17	7.0	ppb v/v			07/17/19 01:47	34.77
tert-Butyl alcohol	170	U	170	52	ppb v/v			07/17/19 01:47	34.77

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
 SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	7.0	U	7.0	2.1	ppb v/v			07/17/19 01:47	34.77
trans-1,2-Dichloroethene	7.0	U	7.0	2.6	ppb v/v			07/17/19 01:47	34.77
n-Hexane	6.4	J D	7.0	5.6	ppb v/v			07/17/19 01:47	34.77
1,1-Dichloroethane	7.0	U	7.0	0.90	ppb v/v			07/17/19 01:47	34.77
Methyl Ethyl Ketone (2-Butanone)	17	U	17	7.0	ppb v/v			07/17/19 01:47	34.77
cis-1,2-Dichloroethene	8.5	D	1.2	1.3	ppb v/v			07/17/19 01:47	34.77
Chloroform	7.0	U	7.0	1.8	ppb v/v			07/17/19 01:47	34.77
Tetrahydrofuran	170	U	170	90	ppb v/v			07/17/19 01:47	34.77
1,1,1-Trichloroethane	7.0	U	7.0	2.4	ppb v/v			07/17/19 01:47	34.77
Cyclohexane	7.0	U	7.0	2.2	ppb v/v			07/17/19 01:47	34.77
Carbon tetrachloride	1.2	U	1.2	0.83	ppb v/v			07/17/19 01:47	34.77
2,2,4-Trimethylpentane	7.0	U	7.0	3.1	ppb v/v			07/17/19 01:47	34.77
Benzene	7.0	U	7.0	2.5	ppb v/v			07/17/19 01:47	34.77
1,2-Dichloroethane	7.0	U	7.0	2.2	ppb v/v			07/17/19 01:47	34.77
n-Heptane	7.0	U	7.0	4.9	ppb v/v			07/17/19 01:47	34.77
Trichloroethene	4.0	D	1.2	1.0	ppb v/v			07/17/19 01:47	34.77
Methyl methacrylate	17	U	17	7.6	ppb v/v			07/17/19 01:47	34.77
1,2-Dichloropropane	7.0	U	7.0	4.2	ppb v/v			07/17/19 01:47	34.77
1,4-Dioxane	170	U	170	45	ppb v/v			07/17/19 01:47	34.77
Bromodichloromethane	7.0	U	7.0	3.3	ppb v/v			07/17/19 01:47	34.77
cis-1,3-Dichloropropene	7.0	U	7.0	3.4	ppb v/v			07/17/19 01:47	34.77
4-Methyl-2-pentanone (Methyl isobutyl ketone)	17	U	17	13	ppb v/v			07/17/19 01:47	34.77
Toluene	19	D	7.0	2.4	ppb v/v			07/17/19 01:47	34.77
trans-1,3-Dichloropropene	7.0	U	7.0	4.2	ppb v/v			07/17/19 01:47	34.77
1,1,2-Trichloroethane	7.0	U	7.0	2.7	ppb v/v			07/17/19 01:47	34.77
Tetrachloroethene	23	D	7.0	1.0	ppb v/v			07/17/19 01:47	34.77
Methyl Butyl Ketone (2-Hexanone)	17	U	17	15	ppb v/v			07/17/19 01:47	34.77
Dibromochloromethane	7.0	U	7.0	2.5	ppb v/v			07/17/19 01:47	34.77
1,2-Dibromoethane	7.0	U	7.0	2.4	ppb v/v			07/17/19 01:47	34.77
Chlorobenzene	7.0	U	7.0	1.4	ppb v/v			07/17/19 01:47	34.77
Ethylbenzene	2.6	J D	7.0	2.5	ppb v/v			07/17/19 01:47	34.77
m,p-Xylene	5.9	J D	17	2.4	ppb v/v			07/17/19 01:47	34.77
o-Xylene	2.8	J D	7.0	2.5	ppb v/v			07/17/19 01:47	34.77
Styrene	7.0	U	7.0	3.0	ppb v/v			07/17/19 01:47	34.77
Bromoform	7.0	U	7.0	3.0	ppb v/v			07/17/19 01:47	34.77
Cumene	7.0	U	7.0	2.1	ppb v/v			07/17/19 01:47	34.77
1,1,2,2-Tetrachloroethane	7.0	U	7.0	2.6	ppb v/v			07/17/19 01:47	34.77
n-Propylbenzene	7.0	U	7.0	2.4	ppb v/v			07/17/19 01:47	34.77
4-Ethyltoluene	7.0	U	7.0	2.4	ppb v/v			07/17/19 01:47	34.77
1,3,5-Trimethylbenzene	7.0	U	7.0	2.0	ppb v/v			07/17/19 01:47	34.77
2-Chlorotoluene	7.0	U	7.0	2.5	ppb v/v			07/17/19 01:47	34.77
tert-Butylbenzene	7.0	U	7.0	2.0	ppb v/v			07/17/19 01:47	34.77
1,2,4-Trimethylbenzene	3.2	J D	7.0	2.8	ppb v/v			07/17/19 01:47	34.77
sec-Butylbenzene	7.0	U	7.0	2.3	ppb v/v			07/17/19 01:47	34.77
4-Isopropyltoluene	7.0	U	7.0	2.6	ppb v/v			07/17/19 01:47	34.77
1,3-Dichlorobenzene	7.0	U	7.0	2.9	ppb v/v			07/17/19 01:47	34.77
1,4-Dichlorobenzene	7.0	U	7.0	2.3	ppb v/v			07/17/19 01:47	34.77
Benzyl chloride	7.0	U	7.0	4.2	ppb v/v			07/17/19 01:47	34.77

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	7.0	U	7.0	2.8	ppb v/v			07/17/19 01:47	34.77
1,2-Dichlorobenzene	7.0	U	7.0	2.5	ppb v/v			07/17/19 01:47	34.77
1,2,4-Trichlorobenzene	17	U	17	8.3	ppb v/v			07/17/19 01:47	34.77
Hexachlorobutadiene	7.0	U	7.0	2.9	ppb v/v			07/17/19 01:47	34.77
Naphthalene	17	U	17	11	ppb v/v			07/17/19 01:47	34.77

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	26	U	26	10	ug/m3			07/17/19 02:40	10.42
Chlorodifluoromethane	18	U	18	9.6	ug/m3			07/17/19 02:40	10.42
1,2-Dichlorotetrafluoroethane	15	U	15	5.0	ug/m3			07/17/19 02:40	10.42
Chloromethane	11	U	11	5.4	ug/m3			07/17/19 02:40	10.42
n-Butane	12	U	12	7.7	ug/m3			07/17/19 02:40	10.42
Vinyl chloride	0.93	U	0.93	1.1	ug/m3			07/17/19 02:40	10.42
1,3-Butadiene	4.6	U	4.6	1.5	ug/m3			07/17/19 02:40	10.42
Bromomethane	8.1	U	8.1	2.5	ug/m3			07/17/19 02:40	10.42
Chloroethane	14	U	14	5.8	ug/m3			07/17/19 02:40	10.42
Bromoethene(Vinyl Bromide)	9.1	U	9.1	2.6	ug/m3			07/17/19 02:40	10.42
Trichlorofluoromethane	110		12	3.6	ug/m3			07/17/19 02:40	10.42
1,1,2-Trichlorotrifluoroethane	16	U	16	2.5	ug/m3			07/17/19 02:40	10.42
1,1-Dichloroethene	1.4	U	1.4	1.4	ug/m3			07/17/19 02:40	10.42
Acetone	1700	E	120	64	ug/m3			07/17/19 02:40	10.42
Isopropyl alcohol	130	U	130	46	ug/m3			07/17/19 02:40	10.42
Carbon disulfide	16	U	16	3.9	ug/m3			07/17/19 02:40	10.42
3-Chloropropene	16	U	16	8.8	ug/m3			07/17/19 02:40	10.42
Methylene Chloride	18	U	18	7.2	ug/m3			07/17/19 02:40	10.42
tert-Butyl alcohol	160	U	160	47	ug/m3			07/17/19 02:40	10.42
Methyl tert-butyl ether	7.5	U	7.5	2.3	ug/m3			07/17/19 02:40	10.42
trans-1,2-Dichloroethene	8.3	U	8.3	3.1	ug/m3			07/17/19 02:40	10.42
n-Hexane	6.7	J	7.3	5.9	ug/m3			07/17/19 02:40	10.42
1,1-Dichloroethane	8.4	U	8.4	1.1	ug/m3			07/17/19 02:40	10.42
Methyl Ethyl Ketone (2-Butanone)	47		15	6.1	ug/m3			07/17/19 02:40	10.42
cis-1,2-Dichloroethene	1.4	U	1.4	1.5	ug/m3			07/17/19 02:40	10.42
Chloroform	9.5	J	10	2.6	ug/m3			07/17/19 02:40	10.42
Tetrahydrofuran	150	U	150	80	ug/m3			07/17/19 02:40	10.42
1,1,1-Trichloroethane	11	U	11	3.9	ug/m3			07/17/19 02:40	10.42
Cyclohexane	7.2	U	7.2	2.3	ug/m3			07/17/19 02:40	10.42
Carbon tetrachloride	2.3	U	2.3	1.6	ug/m3			07/17/19 02:40	10.42
2,2,4-Trimethylpentane	9.7	U	9.7	4.3	ug/m3			07/17/19 02:40	10.42
Benzene	2.4	J	6.7	2.4	ug/m3			07/17/19 02:40	10.42
1,2-Dichloroethane	8.4	U	8.4	2.7	ug/m3			07/17/19 02:40	10.42
n-Heptane	8.5	U	8.5	6.0	ug/m3			07/17/19 02:40	10.42
Trichloroethene	6.4		2.0	1.7	ug/m3			07/17/19 02:40	10.42
Methyl methacrylate	21	U	21	9.4	ug/m3			07/17/19 02:40	10.42

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
 SDG: 200-49613-1

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	9.6	U	9.6	5.8	ug/m3			07/17/19 02:40	10.42
1,4-Dioxane	190	U	190	49	ug/m3			07/17/19 02:40	10.42
Bromodichloromethane	14	U	14	6.6	ug/m3			07/17/19 02:40	10.42
cis-1,3-Dichloropropene	9.5	U	9.5	4.6	ug/m3			07/17/19 02:40	10.42
4-Methyl-2-pentanone (Methyl isobutyl ketone)	21	U	21	15	ug/m3			07/17/19 02:40	10.42
Toluene	60		7.9	2.7	ug/m3			07/17/19 02:40	10.42
trans-1,3-Dichloropropene	9.5	U	9.5	5.7	ug/m3			07/17/19 02:40	10.42
1,1,2-Trichloroethane	11	U	11	4.4	ug/m3			07/17/19 02:40	10.42
Tetrachloroethene	100		14	2.0	ug/m3			07/17/19 02:40	10.42
Methyl Butyl Ketone (2-Hexanone)	21	U	21	18	ug/m3			07/17/19 02:40	10.42
Dibromochloromethane	18	U	18	6.3	ug/m3			07/17/19 02:40	10.42
1,2-Dibromoethane	16	U	16	5.5	ug/m3			07/17/19 02:40	10.42
Chlorobenzene	9.6	U	9.6	1.9	ug/m3			07/17/19 02:40	10.42
Ethylbenzene	6.2	J	9.0	3.3	ug/m3			07/17/19 02:40	10.42
m,p-Xylene	8.9	J	23	3.2	ug/m3			07/17/19 02:40	10.42
o-Xylene	3.9	J	9.0	3.2	ug/m3			07/17/19 02:40	10.42
Styrene	8.9	U	8.9	3.8	ug/m3			07/17/19 02:40	10.42
Bromoform	22	U	22	9.3	ug/m3			07/17/19 02:40	10.42
Cumene	10	U	10	3.0	ug/m3			07/17/19 02:40	10.42
1,1,2,2-Tetrachloroethane	14	U	14	5.4	ug/m3			07/17/19 02:40	10.42
n-Propylbenzene	10	U	10	3.5	ug/m3			07/17/19 02:40	10.42
4-Ethyltoluene	10	U	10	3.5	ug/m3			07/17/19 02:40	10.42
1,3,5-Trimethylbenzene	10	U	10	3.0	ug/m3			07/17/19 02:40	10.42
2-Chlorotoluene	11	U	11	3.8	ug/m3			07/17/19 02:40	10.42
tert-Butylbenzene	11	U	11	3.3	ug/m3			07/17/19 02:40	10.42
1,2,4-Trimethylbenzene	10	U	10	4.1	ug/m3			07/17/19 02:40	10.42
sec-Butylbenzene	11	U	11	3.8	ug/m3			07/17/19 02:40	10.42
4-Isopropyltoluene	11	U	11	4.3	ug/m3			07/17/19 02:40	10.42
1,3-Dichlorobenzene	13	U	13	5.1	ug/m3			07/17/19 02:40	10.42
1,4-Dichlorobenzene	13	U	13	4.1	ug/m3			07/17/19 02:40	10.42
Benzyl chloride	11	U	11	6.5	ug/m3			07/17/19 02:40	10.42
n-Butylbenzene	11	U	11	4.6	ug/m3			07/17/19 02:40	10.42
1,2-Dichlorobenzene	13	U	13	4.4	ug/m3			07/17/19 02:40	10.42
1,2,4-Trichlorobenzene	39	U	39	19	ug/m3			07/17/19 02:40	10.42
Hexachlorobutadiene	22	U	22	9.1	ug/m3			07/17/19 02:40	10.42
Naphthalene	27	U	27	17	ug/m3			07/17/19 02:40	10.42
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	5.2	U	5.2	2.1	ppb v/v			07/17/19 02:40	10.42
Chlorodifluoromethane	5.2	U	5.2	2.7	ppb v/v			07/17/19 02:40	10.42
1,2-Dichlorotetrafluoroethane	2.1	U	2.1	0.71	ppb v/v			07/17/19 02:40	10.42
Chloromethane	5.2	U	5.2	2.6	ppb v/v			07/17/19 02:40	10.42
n-Butane	5.2	U	5.2	3.2	ppb v/v			07/17/19 02:40	10.42
Vinyl chloride	0.36	U	0.36	0.43	ppb v/v			07/17/19 02:40	10.42
1,3-Butadiene	2.1	U	2.1	0.68	ppb v/v			07/17/19 02:40	10.42
Bromomethane	2.1	U	2.1	0.65	ppb v/v			07/17/19 02:40	10.42
Chloroethane	5.2	U	5.2	2.2	ppb v/v			07/17/19 02:40	10.42
Bromoethene(Vinyl Bromide)	2.1	U	2.1	0.58	ppb v/v			07/17/19 02:40	10.42

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	19		2.1	0.65	ppb v/v			07/17/19 02:40	10.42
1,1,2-Trichlorotrifluoroethane	2.1	U	2.1	0.32	ppb v/v			07/17/19 02:40	10.42
1,1-Dichloroethene	0.37	U	0.37	0.35	ppb v/v			07/17/19 02:40	10.42
Acetone	740	E	52	27	ppb v/v			07/17/19 02:40	10.42
Isopropyl alcohol	52	U	52	19	ppb v/v			07/17/19 02:40	10.42
Carbon disulfide	5.2	U	5.2	1.3	ppb v/v			07/17/19 02:40	10.42
3-Chloropropene	5.2	U	5.2	2.8	ppb v/v			07/17/19 02:40	10.42
Methylene Chloride	5.2	U	5.2	2.1	ppb v/v			07/17/19 02:40	10.42
tert-Butyl alcohol	52	U	52	16	ppb v/v			07/17/19 02:40	10.42
Methyl tert-butyl ether	2.1	U	2.1	0.64	ppb v/v			07/17/19 02:40	10.42
trans-1,2-Dichloroethene	2.1	U	2.1	0.77	ppb v/v			07/17/19 02:40	10.42
n-Hexane	1.9	J	2.1	1.7	ppb v/v			07/17/19 02:40	10.42
1,1-Dichloroethane	2.1	U	2.1	0.27	ppb v/v			07/17/19 02:40	10.42
Methyl Ethyl Ketone (2-Butanone)	16		5.2	2.1	ppb v/v			07/17/19 02:40	10.42
cis-1,2-Dichloroethene	0.37	U	0.37	0.39	ppb v/v			07/17/19 02:40	10.42
Chloroform	1.9	J	2.1	0.54	ppb v/v			07/17/19 02:40	10.42
Tetrahydrofuran	52	U	52	27	ppb v/v			07/17/19 02:40	10.42
1,1,1-Trichloroethane	2.1	U	2.1	0.71	ppb v/v			07/17/19 02:40	10.42
Cyclohexane	2.1	U	2.1	0.66	ppb v/v			07/17/19 02:40	10.42
Carbon tetrachloride	0.36	U	0.36	0.25	ppb v/v			07/17/19 02:40	10.42
2,2,4-Trimethylpentane	2.1	U	2.1	0.92	ppb v/v			07/17/19 02:40	10.42
Benzene	0.75	J	2.1	0.74	ppb v/v			07/17/19 02:40	10.42
1,2-Dichloroethane	2.1	U	2.1	0.66	ppb v/v			07/17/19 02:40	10.42
n-Heptane	2.1	U	2.1	1.5	ppb v/v			07/17/19 02:40	10.42
Trichloroethene	1.2		0.36	0.31	ppb v/v			07/17/19 02:40	10.42
Methyl methacrylate	5.2	U	5.2	2.3	ppb v/v			07/17/19 02:40	10.42
1,2-Dichloropropane	2.1	U	2.1	1.3	ppb v/v			07/17/19 02:40	10.42
1,4-Dioxane	52	U	52	14	ppb v/v			07/17/19 02:40	10.42
Bromodichloromethane	2.1	U	2.1	0.98	ppb v/v			07/17/19 02:40	10.42
cis-1,3-Dichloropropene	2.1	U	2.1	1.0	ppb v/v			07/17/19 02:40	10.42
4-Methyl-2-pentanone (Methyl isobutyl ketone)	5.2	U	5.2	3.8	ppb v/v			07/17/19 02:40	10.42
Toluene	16		2.1	0.72	ppb v/v			07/17/19 02:40	10.42
trans-1,3-Dichloropropene	2.1	U	2.1	1.3	ppb v/v			07/17/19 02:40	10.42
1,1,2-Trichloroethane	2.1	U	2.1	0.81	ppb v/v			07/17/19 02:40	10.42
Tetrachloroethene	15		2.1	0.30	ppb v/v			07/17/19 02:40	10.42
Methyl Butyl Ketone (2-Hexanone)	5.2	U	5.2	4.4	ppb v/v			07/17/19 02:40	10.42
Dibromochloromethane	2.1	U	2.1	0.74	ppb v/v			07/17/19 02:40	10.42
1,2-Dibromoethane	2.1	U	2.1	0.72	ppb v/v			07/17/19 02:40	10.42
Chlorobenzene	2.1	U	2.1	0.42	ppb v/v			07/17/19 02:40	10.42
Ethylbenzene	1.4	J	2.1	0.76	ppb v/v			07/17/19 02:40	10.42
m,p-Xylene	2.0	J	5.2	0.73	ppb v/v			07/17/19 02:40	10.42
o-Xylene	0.90	J	2.1	0.74	ppb v/v			07/17/19 02:40	10.42
Styrene	2.1	U	2.1	0.90	ppb v/v			07/17/19 02:40	10.42
Bromoform	2.1	U	2.1	0.90	ppb v/v			07/17/19 02:40	10.42
Cumene	2.1	U	2.1	0.61	ppb v/v			07/17/19 02:40	10.42
1,1,2,2-Tetrachloroethane	2.1	U	2.1	0.79	ppb v/v			07/17/19 02:40	10.42
n-Propylbenzene	2.1	U	2.1	0.72	ppb v/v			07/17/19 02:40	10.42
4-Ethyltoluene	2.1	U	2.1	0.72	ppb v/v			07/17/19 02:40	10.42

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	2.1	U	2.1	0.60	ppb v/v			07/17/19 02:40	10.42
2-Chlorotoluene	2.1	U	2.1	0.74	ppb v/v			07/17/19 02:40	10.42
tert-Butylbenzene	2.1	U	2.1	0.60	ppb v/v			07/17/19 02:40	10.42
1,2,4-Trimethylbenzene	2.1	U	2.1	0.83	ppb v/v			07/17/19 02:40	10.42
sec-Butylbenzene	2.1	U	2.1	0.69	ppb v/v			07/17/19 02:40	10.42
4-Isopropyltoluene	2.1	U	2.1	0.78	ppb v/v			07/17/19 02:40	10.42
1,3-Dichlorobenzene	2.1	U	2.1	0.85	ppb v/v			07/17/19 02:40	10.42
1,4-Dichlorobenzene	2.1	U	2.1	0.68	ppb v/v			07/17/19 02:40	10.42
Benzyl chloride	2.1	U	2.1	1.3	ppb v/v			07/17/19 02:40	10.42
n-Butylbenzene	2.1	U	2.1	0.83	ppb v/v			07/17/19 02:40	10.42
1,2-Dichlorobenzene	2.1	U	2.1	0.74	ppb v/v			07/17/19 02:40	10.42
1,2,4-Trichlorobenzene	5.2	U	5.2	2.5	ppb v/v			07/17/19 02:40	10.42
Hexachlorobutadiene	2.1	U	2.1	0.85	ppb v/v			07/17/19 02:40	10.42
Naphthalene	5.2	U	5.2	3.2	ppb v/v			07/17/19 02:40	10.42

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	130	U	130	52	ug/m3			07/17/19 03:32	52.1
Chlorodifluoromethane	92	U	92	48	ug/m3			07/17/19 03:32	52.1
1,2-Dichlorotetrafluoroethane	73	U	73	25	ug/m3			07/17/19 03:32	52.1
Chloromethane	54	U	54	27	ug/m3			07/17/19 03:32	52.1
n-Butane	62	U	62	38	ug/m3			07/17/19 03:32	52.1
Vinyl chloride	4.7	U	4.7	5.5	ug/m3			07/17/19 03:32	52.1
1,3-Butadiene	23	U	23	7.5	ug/m3			07/17/19 03:32	52.1
Bromomethane	40	U	40	13	ug/m3			07/17/19 03:32	52.1
Chloroethane	69	U	69	29	ug/m3			07/17/19 03:32	52.1
Bromoethene(Vinyl Bromide)	46	U	46	13	ug/m3			07/17/19 03:32	52.1
Trichlorofluoromethane	110	D	59	18	ug/m3			07/17/19 03:32	52.1
1,1,2-Trichlorotrifluoroethane	80	U	80	12	ug/m3			07/17/19 03:32	52.1
1,1-Dichloroethene	7.2	U	7.2	7.0	ug/m3			07/17/19 03:32	52.1
Acetone	1800	D	620	320	ug/m3			07/17/19 03:32	52.1
Isopropyl alcohol	640	U	640	230	ug/m3			07/17/19 03:32	52.1
Carbon disulfide	81	U	81	19	ug/m3			07/17/19 03:32	52.1
3-Chloropropene	82	U	82	44	ug/m3			07/17/19 03:32	52.1
Methylene Chloride	90	U	90	36	ug/m3			07/17/19 03:32	52.1
tert-Butyl alcohol	790	U	790	240	ug/m3			07/17/19 03:32	52.1
Methyl tert-butyl ether	38	U	38	11	ug/m3			07/17/19 03:32	52.1
trans-1,2-Dichloroethene	41	U	41	15	ug/m3			07/17/19 03:32	52.1
n-Hexane	37	U	37	29	ug/m3			07/17/19 03:32	52.1
1,1-Dichloroethane	42	U	42	5.5	ug/m3			07/17/19 03:32	52.1
Methyl Ethyl Ketone (2-Butanone)	77	U	77	31	ug/m3			07/17/19 03:32	52.1
cis-1,2-Dichloroethene	7.2	U	7.2	7.6	ug/m3			07/17/19 03:32	52.1
Chloroform	51	U	51	13	ug/m3			07/17/19 03:32	52.1
Tetrahydrofuran	770	U	770	400	ug/m3			07/17/19 03:32	52.1
1,1,1-Trichloroethane	57	U	57	19	ug/m3			07/17/19 03:32	52.1
Cyclohexane	36	U	36	11	ug/m3			07/17/19 03:32	52.1
Carbon tetrachloride	11	U	11	7.9	ug/m3			07/17/19 03:32	52.1
2,2,4-Trimethylpentane	49	U	49	21	ug/m3			07/17/19 03:32	52.1
Benzene	33	U	33	12	ug/m3			07/17/19 03:32	52.1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	42	U	42	13	ug/m3			07/17/19 03:32	52.1
n-Heptane	43	U	43	30	ug/m3			07/17/19 03:32	52.1
Trichloroethene	9.8	U	9.8	8.4	ug/m3			07/17/19 03:32	52.1
Methyl methacrylate	110	U	110	47	ug/m3			07/17/19 03:32	52.1
1,2-Dichloropropane	48	U	48	29	ug/m3			07/17/19 03:32	52.1
1,4-Dioxane	940	U	940	240	ug/m3			07/17/19 03:32	52.1
Bromodichloromethane	70	U	70	33	ug/m3			07/17/19 03:32	52.1
cis-1,3-Dichloropropene	47	U	47	23	ug/m3			07/17/19 03:32	52.1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	110	U	110	77	ug/m3			07/17/19 03:32	52.1
Toluene	63	D	39	14	ug/m3			07/17/19 03:32	52.1
trans-1,3-Dichloropropene	47	U	47	28	ug/m3			07/17/19 03:32	52.1
1,1,2-Trichloroethane	57	U	57	22	ug/m3			07/17/19 03:32	52.1
Tetrachloroethene	100	D	71	10	ug/m3			07/17/19 03:32	52.1
Methyl Butyl Ketone (2-Hexanone)	110	U	110	90	ug/m3			07/17/19 03:32	52.1
Dibromochloromethane	89	U	89	32	ug/m3			07/17/19 03:32	52.1
1,2-Dibromoethane	80	U	80	28	ug/m3			07/17/19 03:32	52.1
Chlorobenzene	48	U	48	9.6	ug/m3			07/17/19 03:32	52.1
Ethylbenzene	45	U	45	17	ug/m3			07/17/19 03:32	52.1
m,p-Xylene	110	U	110	16	ug/m3			07/17/19 03:32	52.1
o-Xylene	45	U	45	16	ug/m3			07/17/19 03:32	52.1
Styrene	44	U	44	19	ug/m3			07/17/19 03:32	52.1
Bromoform	110	U	110	46	ug/m3			07/17/19 03:32	52.1
Cumene	51	U	51	15	ug/m3			07/17/19 03:32	52.1
1,1,2,2-Tetrachloroethane	72	U	72	27	ug/m3			07/17/19 03:32	52.1
n-Propylbenzene	51	U	51	18	ug/m3			07/17/19 03:32	52.1
4-Ethyltoluene	51	U	51	18	ug/m3			07/17/19 03:32	52.1
1,3,5-Trimethylbenzene	51	U	51	15	ug/m3			07/17/19 03:32	52.1
2-Chlorotoluene	54	U	54	19	ug/m3			07/17/19 03:32	52.1
tert-Butylbenzene	57	U	57	17	ug/m3			07/17/19 03:32	52.1
1,2,4-Trimethylbenzene	51	U	51	20	ug/m3			07/17/19 03:32	52.1
sec-Butylbenzene	57	U	57	19	ug/m3			07/17/19 03:32	52.1
4-Isopropyltoluene	57	U	57	21	ug/m3			07/17/19 03:32	52.1
1,3-Dichlorobenzene	63	U	63	26	ug/m3			07/17/19 03:32	52.1
1,4-Dichlorobenzene	63	U	63	20	ug/m3			07/17/19 03:32	52.1
Benzyl chloride	54	U	54	32	ug/m3			07/17/19 03:32	52.1
n-Butylbenzene	57	U	57	23	ug/m3			07/17/19 03:32	52.1
1,2-Dichlorobenzene	63	U	63	22	ug/m3			07/17/19 03:32	52.1
1,2,4-Trichlorobenzene	190	U	190	93	ug/m3			07/17/19 03:32	52.1
Hexachlorobutadiene	110	U	110	46	ug/m3			07/17/19 03:32	52.1
Naphthalene	140	U	140	85	ug/m3			07/17/19 03:32	52.1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	26	U	26	10	ppb v/v			07/17/19 03:32	52.1
Chlorodifluoromethane	26	U	26	14	ppb v/v			07/17/19 03:32	52.1
1,2-Dichlorotetrafluoroethane	10	U	10	3.5	ppb v/v			07/17/19 03:32	52.1
Chloromethane	26	U	26	13	ppb v/v			07/17/19 03:32	52.1
n-Butane	26	U	26	16	ppb v/v			07/17/19 03:32	52.1
Vinyl chloride	1.8	U	1.8	2.1	ppb v/v			07/17/19 03:32	52.1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	10	U	10	3.4	ppb v/v			07/17/19 03:32	52.1
Bromomethane	10	U	10	3.2	ppb v/v			07/17/19 03:32	52.1
Chloroethane	26	U	26	11	ppb v/v			07/17/19 03:32	52.1
Bromoethene(Vinyl Bromide)	10	U	10	2.9	ppb v/v			07/17/19 03:32	52.1
Trichlorofluoromethane	19	D	10	3.2	ppb v/v			07/17/19 03:32	52.1
1,1,2-Trichlorotrifluoroethane	10	U	10	1.6	ppb v/v			07/17/19 03:32	52.1
1,1-Dichloroethene	1.8	U	1.8	1.8	ppb v/v			07/17/19 03:32	52.1
Acetone	760	D	260	140	ppb v/v			07/17/19 03:32	52.1
Isopropyl alcohol	260	U	260	94	ppb v/v			07/17/19 03:32	52.1
Carbon disulfide	26	U	26	6.3	ppb v/v			07/17/19 03:32	52.1
3-Chloropropene	26	U	26	14	ppb v/v			07/17/19 03:32	52.1
Methylene Chloride	26	U	26	10	ppb v/v			07/17/19 03:32	52.1
tert-Butyl alcohol	260	U	260	78	ppb v/v			07/17/19 03:32	52.1
Methyl tert-butyl ether	10	U	10	3.2	ppb v/v			07/17/19 03:32	52.1
trans-1,2-Dichloroethene	10	U	10	3.9	ppb v/v			07/17/19 03:32	52.1
n-Hexane	10	U	10	8.3	ppb v/v			07/17/19 03:32	52.1
1,1-Dichloroethane	10	U	10	1.4	ppb v/v			07/17/19 03:32	52.1
Methyl Ethyl Ketone (2-Butanone)	26	U	26	10	ppb v/v			07/17/19 03:32	52.1
cis-1,2-Dichloroethene	1.8	U	1.8	1.9	ppb v/v			07/17/19 03:32	52.1
Chloroform	10	U	10	2.7	ppb v/v			07/17/19 03:32	52.1
Tetrahydrofuran	260	U	260	140	ppb v/v			07/17/19 03:32	52.1
1,1,1-Trichloroethane	10	U	10	3.5	ppb v/v			07/17/19 03:32	52.1
Cyclohexane	10	U	10	3.3	ppb v/v			07/17/19 03:32	52.1
Carbon tetrachloride	1.8	U	1.8	1.3	ppb v/v			07/17/19 03:32	52.1
2,2,4-Trimethylpentane	10	U	10	4.6	ppb v/v			07/17/19 03:32	52.1
Benzene	10	U	10	3.7	ppb v/v			07/17/19 03:32	52.1
1,2-Dichloroethane	10	U	10	3.3	ppb v/v			07/17/19 03:32	52.1
n-Heptane	10	U	10	7.3	ppb v/v			07/17/19 03:32	52.1
Trichloroethene	1.8	U	1.8	1.6	ppb v/v			07/17/19 03:32	52.1
Methyl methacrylate	26	U	26	11	ppb v/v			07/17/19 03:32	52.1
1,2-Dichloropropane	10	U	10	6.3	ppb v/v			07/17/19 03:32	52.1
1,4-Dioxane	260	U	260	68	ppb v/v			07/17/19 03:32	52.1
Bromodichloromethane	10	U	10	4.9	ppb v/v			07/17/19 03:32	52.1
cis-1,3-Dichloropropene	10	U	10	5.1	ppb v/v			07/17/19 03:32	52.1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	26	U	26	19	ppb v/v			07/17/19 03:32	52.1
Toluene	17	D	10	3.6	ppb v/v			07/17/19 03:32	52.1
trans-1,3-Dichloropropene	10	U	10	6.3	ppb v/v			07/17/19 03:32	52.1
1,1,2-Trichloroethane	10	U	10	4.1	ppb v/v			07/17/19 03:32	52.1
Tetrachloroethene	15	D	10	1.5	ppb v/v			07/17/19 03:32	52.1
Methyl Butyl Ketone (2-Hexanone)	26	U	26	22	ppb v/v			07/17/19 03:32	52.1
Dibromochloromethane	10	U	10	3.7	ppb v/v			07/17/19 03:32	52.1
1,2-Dibromoethane	10	U	10	3.6	ppb v/v			07/17/19 03:32	52.1
Chlorobenzene	10	U	10	2.1	ppb v/v			07/17/19 03:32	52.1
Ethylbenzene	10	U	10	3.8	ppb v/v			07/17/19 03:32	52.1
m,p-Xylene	26	U	26	3.6	ppb v/v			07/17/19 03:32	52.1
o-Xylene	10	U	10	3.7	ppb v/v			07/17/19 03:32	52.1
Styrene	10	U	10	4.5	ppb v/v			07/17/19 03:32	52.1
Bromoform	10	U	10	4.5	ppb v/v			07/17/19 03:32	52.1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	10	U	10	3.1	ppb v/v			07/17/19 03:32	52.1
1,1,2,2-Tetrachloroethane	10	U	10	4.0	ppb v/v			07/17/19 03:32	52.1
n-Propylbenzene	10	U	10	3.6	ppb v/v			07/17/19 03:32	52.1
4-Ethyltoluene	10	U	10	3.6	ppb v/v			07/17/19 03:32	52.1
1,3,5-Trimethylbenzene	10	U	10	3.0	ppb v/v			07/17/19 03:32	52.1
2-Chlorotoluene	10	U	10	3.7	ppb v/v			07/17/19 03:32	52.1
tert-Butylbenzene	10	U	10	3.0	ppb v/v			07/17/19 03:32	52.1
1,2,4-Trimethylbenzene	10	U	10	4.2	ppb v/v			07/17/19 03:32	52.1
sec-Butylbenzene	10	U	10	3.4	ppb v/v			07/17/19 03:32	52.1
4-Isopropyltoluene	10	U	10	3.9	ppb v/v			07/17/19 03:32	52.1
1,3-Dichlorobenzene	10	U	10	4.3	ppb v/v			07/17/19 03:32	52.1
1,4-Dichlorobenzene	10	U	10	3.4	ppb v/v			07/17/19 03:32	52.1
Benzyl chloride	10	U	10	6.3	ppb v/v			07/17/19 03:32	52.1
n-Butylbenzene	10	U	10	4.2	ppb v/v			07/17/19 03:32	52.1
1,2-Dichlorobenzene	10	U	10	3.7	ppb v/v			07/17/19 03:32	52.1
1,2,4-Trichlorobenzene	26	U	26	13	ppb v/v			07/17/19 03:32	52.1
Hexachlorobutadiene	10	U	10	4.3	ppb v/v			07/17/19 03:32	52.1
Naphthalene	26	U	26	16	ppb v/v			07/17/19 03:32	52.1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	22	U	22	8.9	ug/m3			07/17/19 04:25	9.02
Chlorodifluoromethane	16	U	16	8.3	ug/m3			07/17/19 04:25	9.02
1,2-Dichlorotetrafluoroethane	13	U	13	4.3	ug/m3			07/17/19 04:25	9.02
Chloromethane	9.3	U	9.3	4.7	ug/m3			07/17/19 04:25	9.02
n-Butane	11	U	11	6.6	ug/m3			07/17/19 04:25	9.02
Vinyl chloride	0.81	U	0.81	0.95	ug/m3			07/17/19 04:25	9.02
1,3-Butadiene	4.0	U	4.0	1.3	ug/m3			07/17/19 04:25	9.02
Bromomethane	7.0	U	7.0	2.2	ug/m3			07/17/19 04:25	9.02
Chloroethane	12	U	12	5.0	ug/m3			07/17/19 04:25	9.02
Bromoethene(Vinyl Bromide)	7.9	U	7.9	2.2	ug/m3			07/17/19 04:25	9.02
Trichlorofluoromethane	10	U	10	3.1	ug/m3			07/17/19 04:25	9.02
1,1,2-Trichlorotrifluoroethane	14	U	14	2.1	ug/m3			07/17/19 04:25	9.02
1,1-Dichloroethene	1.3	U	1.3	1.2	ug/m3			07/17/19 04:25	9.02
Acetone	1600	E	110	56	ug/m3			07/17/19 04:25	9.02
Isopropyl alcohol	110	U	110	40	ug/m3			07/17/19 04:25	9.02
Carbon disulfide	14	U	14	3.4	ug/m3			07/17/19 04:25	9.02
3-Chloropropene	14	U	14	7.6	ug/m3			07/17/19 04:25	9.02
Methylene Chloride	16	U	16	6.3	ug/m3			07/17/19 04:25	9.02
tert-Butyl alcohol	140	U	140	41	ug/m3			07/17/19 04:25	9.02
Methyl tert-butyl ether	6.5	U	6.5	2.0	ug/m3			07/17/19 04:25	9.02
trans-1,2-Dichloroethene	7.2	U	7.2	2.6	ug/m3			07/17/19 04:25	9.02
n-Hexane	7.2		6.4	5.1	ug/m3			07/17/19 04:25	9.02
1,1-Dichloroethane	7.3	U	7.3	0.95	ug/m3			07/17/19 04:25	9.02

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone (2-Butanone)	40		13	5.3	ug/m3			07/17/19 04:25	9.02
cis-1,2-Dichloroethene	1.3	U	1.3	1.3	ug/m3			07/17/19 04:25	9.02
Chloroform	8.8	U	8.8	2.3	ug/m3			07/17/19 04:25	9.02
Tetrahydrofuran	130	U	130	69	ug/m3			07/17/19 04:25	9.02
1,1,1-Trichloroethane	9.8	U	9.8	3.3	ug/m3			07/17/19 04:25	9.02
Cyclohexane	6.2	U	6.2	2.0	ug/m3			07/17/19 04:25	9.02
Carbon tetrachloride	2.0	U	2.0	1.4	ug/m3			07/17/19 04:25	9.02
2,2,4-Trimethylpentane	8.4	U	8.4	3.7	ug/m3			07/17/19 04:25	9.02
Benzene	5.3	J	5.8	2.0	ug/m3			07/17/19 04:25	9.02
1,2-Dichloroethane	7.3	U	7.3	2.3	ug/m3			07/17/19 04:25	9.02
n-Heptane	6.7	J	7.4	5.2	ug/m3			07/17/19 04:25	9.02
Trichloroethene	1.7	U	1.7	1.5	ug/m3			07/17/19 04:25	9.02
Methyl methacrylate	18	U	18	8.1	ug/m3			07/17/19 04:25	9.02
1,2-Dichloropropane	8.3	U	8.3	5.0	ug/m3			07/17/19 04:25	9.02
1,4-Dioxane	160	U	160	42	ug/m3			07/17/19 04:25	9.02
Bromodichloromethane	12	U	12	5.7	ug/m3			07/17/19 04:25	9.02
cis-1,3-Dichloropropene	8.2	U	8.2	4.0	ug/m3			07/17/19 04:25	9.02
4-Methyl-2-pentanone (Methyl isobutyl ketone)	18	U	18	13	ug/m3			07/17/19 04:25	9.02
Toluene	81		6.8	2.3	ug/m3			07/17/19 04:25	9.02
trans-1,3-Dichloropropene	8.2	U	8.2	4.9	ug/m3			07/17/19 04:25	9.02
1,1,2-Trichloroethane	9.8	U	9.8	3.8	ug/m3			07/17/19 04:25	9.02
Tetrachloroethene	1.8	J	12	1.8	ug/m3			07/17/19 04:25	9.02
Methyl Butyl Ketone (2-Hexanone)	18	U	18	16	ug/m3			07/17/19 04:25	9.02
Dibromochloromethane	15	U	15	5.5	ug/m3			07/17/19 04:25	9.02
1,2-Dibromoethane	14	U	14	4.8	ug/m3			07/17/19 04:25	9.02
Chlorobenzene	8.3	U	8.3	1.7	ug/m3			07/17/19 04:25	9.02
Ethylbenzene	10		7.8	2.9	ug/m3			07/17/19 04:25	9.02
m,p-Xylene	29		20	2.7	ug/m3			07/17/19 04:25	9.02
o-Xylene	13		7.8	2.8	ug/m3			07/17/19 04:25	9.02
Styrene	7.7	U	7.7	3.3	ug/m3			07/17/19 04:25	9.02
Bromoform	19	U	19	8.0	ug/m3			07/17/19 04:25	9.02
Cumene	8.9	U	8.9	2.6	ug/m3			07/17/19 04:25	9.02
1,1,2,2-Tetrachloroethane	12	U	12	4.7	ug/m3			07/17/19 04:25	9.02
n-Propylbenzene	4.0	J	8.9	3.1	ug/m3			07/17/19 04:25	9.02
4-Ethyltoluene	4.6	J	8.9	3.1	ug/m3			07/17/19 04:25	9.02
1,3,5-Trimethylbenzene	3.6	J	8.9	2.6	ug/m3			07/17/19 04:25	9.02
2-Chlorotoluene	9.3	U	9.3	3.3	ug/m3			07/17/19 04:25	9.02
tert-Butylbenzene	9.9	U	9.9	2.9	ug/m3			07/17/19 04:25	9.02
1,2,4-Trimethylbenzene	15		8.9	3.5	ug/m3			07/17/19 04:25	9.02
sec-Butylbenzene	9.9	U	9.9	3.3	ug/m3			07/17/19 04:25	9.02
4-Isopropyltoluene	9.9	U	9.9	3.7	ug/m3			07/17/19 04:25	9.02
1,3-Dichlorobenzene	11	U	11	4.4	ug/m3			07/17/19 04:25	9.02
1,4-Dichlorobenzene	11	U	11	3.5	ug/m3			07/17/19 04:25	9.02
Benzyl chloride	9.3	U	9.3	5.6	ug/m3			07/17/19 04:25	9.02
n-Butylbenzene	9.9	U	9.9	4.0	ug/m3			07/17/19 04:25	9.02
1,2-Dichlorobenzene	11	U	11	3.9	ug/m3			07/17/19 04:25	9.02
1,2,4-Trichlorobenzene	33	U	33	16	ug/m3			07/17/19 04:25	9.02
Hexachlorobutadiene	19	U	19	7.9	ug/m3			07/17/19 04:25	9.02

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	17	J	24	15	ug/m3			07/17/19 04:25	9.02
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	4.5	U	4.5	1.8	ppb v/v			07/17/19 04:25	9.02
Chlorodifluoromethane	4.5	U	4.5	2.3	ppb v/v			07/17/19 04:25	9.02
1,2-Dichlorotetrafluoroethane	1.8	U	1.8	0.61	ppb v/v			07/17/19 04:25	9.02
Chloromethane	4.5	U	4.5	2.3	ppb v/v			07/17/19 04:25	9.02
n-Butane	4.5	U	4.5	2.8	ppb v/v			07/17/19 04:25	9.02
Vinyl chloride	0.32	U	0.32	0.37	ppb v/v			07/17/19 04:25	9.02
1,3-Butadiene	1.8	U	1.8	0.59	ppb v/v			07/17/19 04:25	9.02
Bromomethane	1.8	U	1.8	0.56	ppb v/v			07/17/19 04:25	9.02
Chloroethane	4.5	U	4.5	1.9	ppb v/v			07/17/19 04:25	9.02
Bromoethene(Vinyl Bromide)	1.8	U	1.8	0.51	ppb v/v			07/17/19 04:25	9.02
Trichlorofluoromethane	1.8	U	1.8	0.56	ppb v/v			07/17/19 04:25	9.02
1,1,2-Trichlorotrifluoroethane	1.8	U	1.8	0.28	ppb v/v			07/17/19 04:25	9.02
1,1-Dichloroethene	0.32	U	0.32	0.31	ppb v/v			07/17/19 04:25	9.02
Acetone	660	E	45	23	ppb v/v			07/17/19 04:25	9.02
Isopropyl alcohol	45	U	45	16	ppb v/v			07/17/19 04:25	9.02
Carbon disulfide	4.5	U	4.5	1.1	ppb v/v			07/17/19 04:25	9.02
3-Chloropropene	4.5	U	4.5	2.4	ppb v/v			07/17/19 04:25	9.02
Methylene Chloride	4.5	U	4.5	1.8	ppb v/v			07/17/19 04:25	9.02
tert-Butyl alcohol	45	U	45	14	ppb v/v			07/17/19 04:25	9.02
Methyl tert-butyl ether	1.8	U	1.8	0.55	ppb v/v			07/17/19 04:25	9.02
trans-1,2-Dichloroethene	1.8	U	1.8	0.67	ppb v/v			07/17/19 04:25	9.02
n-Hexane	2.0		1.8	1.4	ppb v/v			07/17/19 04:25	9.02
1,1-Dichloroethane	1.8	U	1.8	0.23	ppb v/v			07/17/19 04:25	9.02
Methyl Ethyl Ketone (2-Butanone)	14		4.5	1.8	ppb v/v			07/17/19 04:25	9.02
cis-1,2-Dichloroethene	0.32	U	0.32	0.33	ppb v/v			07/17/19 04:25	9.02
Chloroform	1.8	U	1.8	0.47	ppb v/v			07/17/19 04:25	9.02
Tetrahydrofuran	45	U	45	23	ppb v/v			07/17/19 04:25	9.02
1,1,1-Trichloroethane	1.8	U	1.8	0.61	ppb v/v			07/17/19 04:25	9.02
Cyclohexane	1.8	U	1.8	0.57	ppb v/v			07/17/19 04:25	9.02
Carbon tetrachloride	0.32	U	0.32	0.22	ppb v/v			07/17/19 04:25	9.02
2,2,4-Trimethylpentane	1.8	U	1.8	0.79	ppb v/v			07/17/19 04:25	9.02
Benzene	1.7	J	1.8	0.64	ppb v/v			07/17/19 04:25	9.02
1,2-Dichloroethane	1.8	U	1.8	0.57	ppb v/v			07/17/19 04:25	9.02
n-Heptane	1.6	J	1.8	1.3	ppb v/v			07/17/19 04:25	9.02
Trichloroethene	0.32	U	0.32	0.27	ppb v/v			07/17/19 04:25	9.02
Methyl methacrylate	4.5	U	4.5	2.0	ppb v/v			07/17/19 04:25	9.02
1,2-Dichloropropane	1.8	U	1.8	1.1	ppb v/v			07/17/19 04:25	9.02
1,4-Dioxane	45	U	45	12	ppb v/v			07/17/19 04:25	9.02
Bromodichloromethane	1.8	U	1.8	0.85	ppb v/v			07/17/19 04:25	9.02
cis-1,3-Dichloropropene	1.8	U	1.8	0.88	ppb v/v			07/17/19 04:25	9.02
4-Methyl-2-pentanone (Methyl isobutyl ketone)	4.5	U	4.5	3.2	ppb v/v			07/17/19 04:25	9.02
Toluene	21		1.8	0.62	ppb v/v			07/17/19 04:25	9.02
trans-1,3-Dichloropropene	1.8	U	1.8	1.1	ppb v/v			07/17/19 04:25	9.02
1,1,2-Trichloroethane	1.8	U	1.8	0.70	ppb v/v			07/17/19 04:25	9.02
Tetrachloroethene	0.27	J	1.8	0.26	ppb v/v			07/17/19 04:25	9.02

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Butyl Ketone (2-Hexanone)	4.5	U	4.5	3.8	ppb v/v			07/17/19 04:25	9.02
Dibromochloromethane	1.8	U	1.8	0.64	ppb v/v			07/17/19 04:25	9.02
1,2-Dibromoethane	1.8	U	1.8	0.62	ppb v/v			07/17/19 04:25	9.02
Chlorobenzene	1.8	U	1.8	0.36	ppb v/v			07/17/19 04:25	9.02
Ethylbenzene	2.4		1.8	0.66	ppb v/v			07/17/19 04:25	9.02
m,p-Xylene	6.6		4.5	0.63	ppb v/v			07/17/19 04:25	9.02
o-Xylene	3.0		1.8	0.64	ppb v/v			07/17/19 04:25	9.02
Styrene	1.8	U	1.8	0.78	ppb v/v			07/17/19 04:25	9.02
Bromoform	1.8	U	1.8	0.78	ppb v/v			07/17/19 04:25	9.02
Cumene	1.8	U	1.8	0.53	ppb v/v			07/17/19 04:25	9.02
1,1,2,2-Tetrachloroethane	1.8	U	1.8	0.69	ppb v/v			07/17/19 04:25	9.02
n-Propylbenzene	0.81	J	1.8	0.62	ppb v/v			07/17/19 04:25	9.02
4-Ethyltoluene	0.94	J	1.8	0.62	ppb v/v			07/17/19 04:25	9.02
1,3,5-Trimethylbenzene	0.74	J	1.8	0.52	ppb v/v			07/17/19 04:25	9.02
2-Chlorotoluene	1.8	U	1.8	0.64	ppb v/v			07/17/19 04:25	9.02
tert-Butylbenzene	1.8	U	1.8	0.52	ppb v/v			07/17/19 04:25	9.02
1,2,4-Trimethylbenzene	3.0		1.8	0.72	ppb v/v			07/17/19 04:25	9.02
sec-Butylbenzene	1.8	U	1.8	0.60	ppb v/v			07/17/19 04:25	9.02
4-Isopropyltoluene	1.8	U	1.8	0.68	ppb v/v			07/17/19 04:25	9.02
1,3-Dichlorobenzene	1.8	U	1.8	0.74	ppb v/v			07/17/19 04:25	9.02
1,4-Dichlorobenzene	1.8	U	1.8	0.59	ppb v/v			07/17/19 04:25	9.02
Benzyl chloride	1.8	U	1.8	1.1	ppb v/v			07/17/19 04:25	9.02
n-Butylbenzene	1.8	U	1.8	0.72	ppb v/v			07/17/19 04:25	9.02
1,2-Dichlorobenzene	1.8	U	1.8	0.64	ppb v/v			07/17/19 04:25	9.02
1,2,4-Trichlorobenzene	4.5	U	4.5	2.2	ppb v/v			07/17/19 04:25	9.02
Hexachlorobutadiene	1.8	U	1.8	0.74	ppb v/v			07/17/19 04:25	9.02
Naphthalene	3.3	J	4.5	2.8	ppb v/v			07/17/19 04:25	9.02

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	120	U	120	46	ug/m3			07/17/19 05:18	46.9
Chlorodifluoromethane	83	U	83	43	ug/m3			07/17/19 05:18	46.9
1,2-Dichlorotetrafluoroethane	66	U	66	22	ug/m3			07/17/19 05:18	46.9
Chloromethane	48	U	48	24	ug/m3			07/17/19 05:18	46.9
n-Butane	56	U	56	35	ug/m3			07/17/19 05:18	46.9
Vinyl chloride	4.2	U	4.2	4.9	ug/m3			07/17/19 05:18	46.9
1,3-Butadiene	21	U	21	6.7	ug/m3			07/17/19 05:18	46.9
Bromomethane	36	U	36	11	ug/m3			07/17/19 05:18	46.9
Chloroethane	62	U	62	26	ug/m3			07/17/19 05:18	46.9
Bromoethene(Vinyl Bromide)	41	U	41	11	ug/m3			07/17/19 05:18	46.9
Trichlorofluoromethane	53	U	53	16	ug/m3			07/17/19 05:18	46.9
1,1,2-Trichlorotrifluoroethane	72	U	72	11	ug/m3			07/17/19 05:18	46.9
1,1-Dichloroethene	6.5	U	6.5	6.3	ug/m3			07/17/19 05:18	46.9
Acetone	1500	D	560	290	ug/m3			07/17/19 05:18	46.9
Isopropyl alcohol	580	U	580	210	ug/m3			07/17/19 05:18	46.9
Carbon disulfide	73	U	73	18	ug/m3			07/17/19 05:18	46.9
3-Chloropropene	73	U	73	40	ug/m3			07/17/19 05:18	46.9
Methylene Chloride	81	U	81	33	ug/m3			07/17/19 05:18	46.9
tert-Butyl alcohol	710	U	710	210	ug/m3			07/17/19 05:18	46.9

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	34	U	34	10	ug/m3			07/17/19 05:18	46.9
trans-1,2-Dichloroethene	37	U	37	14	ug/m3			07/17/19 05:18	46.9
n-Hexane	26	J D	33	26	ug/m3			07/17/19 05:18	46.9
1,1-Dichloroethane	38	U	38	4.9	ug/m3			07/17/19 05:18	46.9
Methyl Ethyl Ketone (2-Butanone)	69	U	69	28	ug/m3			07/17/19 05:18	46.9
cis-1,2-Dichloroethene	6.5	U	6.5	6.9	ug/m3			07/17/19 05:18	46.9
Chloroform	46	U	46	12	ug/m3			07/17/19 05:18	46.9
Tetrahydrofuran	690	U	690	360	ug/m3			07/17/19 05:18	46.9
1,1,1-Trichloroethane	51	U	51	17	ug/m3			07/17/19 05:18	46.9
Cyclohexane	32	U	32	10	ug/m3			07/17/19 05:18	46.9
Carbon tetrachloride	10	U	10	7.1	ug/m3			07/17/19 05:18	46.9
2,2,4-Trimethylpentane	44	U	44	19	ug/m3			07/17/19 05:18	46.9
Benzene	30	U	30	11	ug/m3			07/17/19 05:18	46.9
1,2-Dichloroethane	38	U	38	12	ug/m3			07/17/19 05:18	46.9
n-Heptane	38	U	38	27	ug/m3			07/17/19 05:18	46.9
Trichloroethene	8.8	U	8.8	7.6	ug/m3			07/17/19 05:18	46.9
Methyl methacrylate	96	U	96	42	ug/m3			07/17/19 05:18	46.9
1,2-Dichloropropane	43	U	43	26	ug/m3			07/17/19 05:18	46.9
1,4-Dioxane	850	U	850	220	ug/m3			07/17/19 05:18	46.9
Bromodichloromethane	63	U	63	30	ug/m3			07/17/19 05:18	46.9
cis-1,3-Dichloropropene	43	U	43	21	ug/m3			07/17/19 05:18	46.9
4-Methyl-2-pentanone (Methyl isobutyl ketone)	96	U	96	69	ug/m3			07/17/19 05:18	46.9
Toluene	83	D	35	12	ug/m3			07/17/19 05:18	46.9
trans-1,3-Dichloropropene	43	U	43	26	ug/m3			07/17/19 05:18	46.9
1,1,2-Trichloroethane	51	U	51	20	ug/m3			07/17/19 05:18	46.9
Tetrachloroethene	64	U	64	9.2	ug/m3			07/17/19 05:18	46.9
Methyl Butyl Ketone (2-Hexanone)	96	U	96	81	ug/m3			07/17/19 05:18	46.9
Dibromochloromethane	80	U	80	28	ug/m3			07/17/19 05:18	46.9
1,2-Dibromoethane	72	U	72	25	ug/m3			07/17/19 05:18	46.9
Chlorobenzene	43	U	43	8.6	ug/m3			07/17/19 05:18	46.9
Ethylbenzene	41	U	41	15	ug/m3			07/17/19 05:18	46.9
m,p-Xylene	29	J D	100	14	ug/m3			07/17/19 05:18	46.9
o-Xylene	16	J D	41	14	ug/m3			07/17/19 05:18	46.9
Styrene	40	U	40	17	ug/m3			07/17/19 05:18	46.9
Bromoform	97	U	97	42	ug/m3			07/17/19 05:18	46.9
Cumene	46	U	46	14	ug/m3			07/17/19 05:18	46.9
1,1,2,2-Tetrachloroethane	64	U	64	24	ug/m3			07/17/19 05:18	46.9
n-Propylbenzene	46	U	46	16	ug/m3			07/17/19 05:18	46.9
4-Ethyltoluene	46	U	46	16	ug/m3			07/17/19 05:18	46.9
1,3,5-Trimethylbenzene	46	U	46	13	ug/m3			07/17/19 05:18	46.9
2-Chlorotoluene	49	U	49	17	ug/m3			07/17/19 05:18	46.9
tert-Butylbenzene	51	U	51	15	ug/m3			07/17/19 05:18	46.9
1,2,4-Trimethylbenzene	46	U	46	18	ug/m3			07/17/19 05:18	46.9
sec-Butylbenzene	51	U	51	17	ug/m3			07/17/19 05:18	46.9
4-Isopropyltoluene	51	U	51	19	ug/m3			07/17/19 05:18	46.9
1,3-Dichlorobenzene	56	U	56	23	ug/m3			07/17/19 05:18	46.9
1,4-Dichlorobenzene	56	U	56	18	ug/m3			07/17/19 05:18	46.9
Benzyl chloride	49	U	49	29	ug/m3			07/17/19 05:18	46.9

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Butylbenzene	51	U	51	21	ug/m3			07/17/19 05:18	46.9
1,2-Dichlorobenzene	56	U	56	20	ug/m3			07/17/19 05:18	46.9
1,2,4-Trichlorobenzene	170	U	170	84	ug/m3			07/17/19 05:18	46.9
Hexachlorobutadiene	100	U	100	41	ug/m3			07/17/19 05:18	46.9
Naphthalene	120	U	120	76	ug/m3			07/17/19 05:18	46.9
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	23	U	23	9.4	ppb v/v			07/17/19 05:18	46.9
Chlorodifluoromethane	23	U	23	12	ppb v/v			07/17/19 05:18	46.9
1,2-Dichlorotetrafluoroethane	9.4	U	9.4	3.2	ppb v/v			07/17/19 05:18	46.9
Chloromethane	23	U	23	12	ppb v/v			07/17/19 05:18	46.9
n-Butane	23	U	23	15	ppb v/v			07/17/19 05:18	46.9
Vinyl chloride	1.6	U	1.6	1.9	ppb v/v			07/17/19 05:18	46.9
1,3-Butadiene	9.4	U	9.4	3.0	ppb v/v			07/17/19 05:18	46.9
Bromomethane	9.4	U	9.4	2.9	ppb v/v			07/17/19 05:18	46.9
Chloroethane	23	U	23	9.8	ppb v/v			07/17/19 05:18	46.9
Bromoethene(Vinyl Bromide)	9.4	U	9.4	2.6	ppb v/v			07/17/19 05:18	46.9
Trichlorofluoromethane	9.4	U	9.4	2.9	ppb v/v			07/17/19 05:18	46.9
1,1,2-Trichlorotrifluoroethane	9.4	U	9.4	1.5	ppb v/v			07/17/19 05:18	46.9
1,1-Dichloroethene	1.6	U	1.6	1.6	ppb v/v			07/17/19 05:18	46.9
Acetone	650	D	230	120	ppb v/v			07/17/19 05:18	46.9
Isopropyl alcohol	230	U	230	84	ppb v/v			07/17/19 05:18	46.9
Carbon disulfide	23	U	23	5.6	ppb v/v			07/17/19 05:18	46.9
3-Chloropropene	23	U	23	13	ppb v/v			07/17/19 05:18	46.9
Methylene Chloride	23	U	23	9.4	ppb v/v			07/17/19 05:18	46.9
tert-Butyl alcohol	230	U	230	70	ppb v/v			07/17/19 05:18	46.9
Methyl tert-butyl ether	9.4	U	9.4	2.9	ppb v/v			07/17/19 05:18	46.9
trans-1,2-Dichloroethene	9.4	U	9.4	3.5	ppb v/v			07/17/19 05:18	46.9
n-Hexane	7.3	J D	9.4	7.5	ppb v/v			07/17/19 05:18	46.9
1,1-Dichloroethane	9.4	U	9.4	1.2	ppb v/v			07/17/19 05:18	46.9
Methyl Ethyl Ketone (2-Butanone)	23	U	23	9.4	ppb v/v			07/17/19 05:18	46.9
cis-1,2-Dichloroethene	1.6	U	1.6	1.7	ppb v/v			07/17/19 05:18	46.9
Chloroform	9.4	U	9.4	2.4	ppb v/v			07/17/19 05:18	46.9
Tetrahydrofuran	230	U	230	120	ppb v/v			07/17/19 05:18	46.9
1,1,1-Trichloroethane	9.4	U	9.4	3.2	ppb v/v			07/17/19 05:18	46.9
Cyclohexane	9.4	U	9.4	3.0	ppb v/v			07/17/19 05:18	46.9
Carbon tetrachloride	1.6	U	1.6	1.1	ppb v/v			07/17/19 05:18	46.9
2,2,4-Trimethylpentane	9.4	U	9.4	4.1	ppb v/v			07/17/19 05:18	46.9
Benzene	9.4	U	9.4	3.3	ppb v/v			07/17/19 05:18	46.9
1,2-Dichloroethane	9.4	U	9.4	3.0	ppb v/v			07/17/19 05:18	46.9
n-Heptane	9.4	U	9.4	6.6	ppb v/v			07/17/19 05:18	46.9
Trichloroethene	1.6	U	1.6	1.4	ppb v/v			07/17/19 05:18	46.9
Methyl methacrylate	23	U	23	10	ppb v/v			07/17/19 05:18	46.9
1,2-Dichloropropane	9.4	U	9.4	5.6	ppb v/v			07/17/19 05:18	46.9
1,4-Dioxane	230	U	230	61	ppb v/v			07/17/19 05:18	46.9
Bromodichloromethane	9.4	U	9.4	4.4	ppb v/v			07/17/19 05:18	46.9
cis-1,3-Dichloropropene	9.4	U	9.4	4.6	ppb v/v			07/17/19 05:18	46.9
4-Methyl-2-pentanone (Methyl isobutyl ketone)	23	U	23	17	ppb v/v			07/17/19 05:18	46.9

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	22	D	9.4	3.2	ppb v/v			07/17/19 05:18	46.9
trans-1,3-Dichloropropene	9.4	U	9.4	5.6	ppb v/v			07/17/19 05:18	46.9
1,1,2-Trichloroethane	9.4	U	9.4	3.7	ppb v/v			07/17/19 05:18	46.9
Tetrachloroethene	9.4	U	9.4	1.4	ppb v/v			07/17/19 05:18	46.9
Methyl Butyl Ketone (2-Hexanone)	23	U	23	20	ppb v/v			07/17/19 05:18	46.9
Dibromochloromethane	9.4	U	9.4	3.3	ppb v/v			07/17/19 05:18	46.9
1,2-Dibromoethane	9.4	U	9.4	3.2	ppb v/v			07/17/19 05:18	46.9
Chlorobenzene	9.4	U	9.4	1.9	ppb v/v			07/17/19 05:18	46.9
Ethylbenzene	9.4	U	9.4	3.4	ppb v/v			07/17/19 05:18	46.9
m,p-Xylene	6.7	J D	23	3.3	ppb v/v			07/17/19 05:18	46.9
o-Xylene	3.6	J D	9.4	3.3	ppb v/v			07/17/19 05:18	46.9
Styrene	9.4	U	9.4	4.0	ppb v/v			07/17/19 05:18	46.9
Bromoform	9.4	U	9.4	4.0	ppb v/v			07/17/19 05:18	46.9
Cumene	9.4	U	9.4	2.8	ppb v/v			07/17/19 05:18	46.9
1,1,2,2-Tetrachloroethane	9.4	U	9.4	3.6	ppb v/v			07/17/19 05:18	46.9
n-Propylbenzene	9.4	U	9.4	3.2	ppb v/v			07/17/19 05:18	46.9
4-Ethyltoluene	9.4	U	9.4	3.2	ppb v/v			07/17/19 05:18	46.9
1,3,5-Trimethylbenzene	9.4	U	9.4	2.7	ppb v/v			07/17/19 05:18	46.9
2-Chlorotoluene	9.4	U	9.4	3.3	ppb v/v			07/17/19 05:18	46.9
tert-Butylbenzene	9.4	U	9.4	2.7	ppb v/v			07/17/19 05:18	46.9
1,2,4-Trimethylbenzene	9.4	U	9.4	3.8	ppb v/v			07/17/19 05:18	46.9
sec-Butylbenzene	9.4	U	9.4	3.1	ppb v/v			07/17/19 05:18	46.9
4-Isopropyltoluene	9.4	U	9.4	3.5	ppb v/v			07/17/19 05:18	46.9
1,3-Dichlorobenzene	9.4	U	9.4	3.8	ppb v/v			07/17/19 05:18	46.9
1,4-Dichlorobenzene	9.4	U	9.4	3.0	ppb v/v			07/17/19 05:18	46.9
Benzyl chloride	9.4	U	9.4	5.6	ppb v/v			07/17/19 05:18	46.9
n-Butylbenzene	9.4	U	9.4	3.8	ppb v/v			07/17/19 05:18	46.9
1,2-Dichlorobenzene	9.4	U	9.4	3.3	ppb v/v			07/17/19 05:18	46.9
1,2,4-Trichlorobenzene	23	U	23	11	ppb v/v			07/17/19 05:18	46.9
Hexachlorobutadiene	9.4	U	9.4	3.8	ppb v/v			07/17/19 05:18	46.9
Naphthalene	23	U	23	15	ppb v/v			07/17/19 05:18	46.9

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	8.6		2.5	0.99	ug/m3			07/17/19 06:10	1
Chlorodifluoromethane	1.8	U	1.8	0.92	ug/m3			07/17/19 06:10	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			07/17/19 06:10	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			07/17/19 06:10	1
n-Butane	40		1.2	0.74	ug/m3			07/17/19 06:10	1
Vinyl chloride	0.30		0.090	0.10	ug/m3			07/17/19 06:10	1
1,3-Butadiene	0.49		0.44	0.14	ug/m3			07/17/19 06:10	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			07/17/19 06:10	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			07/17/19 06:10	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			07/17/19 06:10	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	2.2		1.1	0.35	ug/m3			07/17/19 06:10	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.24	ug/m3			07/17/19 06:10	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			07/17/19 06:10	1
Acetone	100	E	12	6.2	ug/m3			07/17/19 06:10	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			07/17/19 06:10	1
Carbon disulfide	100		1.6	0.37	ug/m3			07/17/19 06:10	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			07/17/19 06:10	1
Methylene Chloride	1.7	U	1.7	0.69	ug/m3			07/17/19 06:10	1
tert-Butyl alcohol	15	U	15	4.5	ug/m3			07/17/19 06:10	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			07/17/19 06:10	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			07/17/19 06:10	1
n-Hexane	110		0.70	0.56	ug/m3			07/17/19 06:10	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			07/17/19 06:10	1
Methyl Ethyl Ketone (2-Butanone)	13		1.5	0.59	ug/m3			07/17/19 06:10	1
cis-1,2-Dichloroethene	6.7		0.14	0.15	ug/m3			07/17/19 06:10	1
Chloroform	11		0.98	0.25	ug/m3			07/17/19 06:10	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			07/17/19 06:10	1
1,1,1-Trichloroethane	1.1	U	1.1	0.37	ug/m3			07/17/19 06:10	1
Cyclohexane	140	E	0.69	0.22	ug/m3			07/17/19 06:10	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			07/17/19 06:10	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.41	ug/m3			07/17/19 06:10	1
Benzene	19		0.64	0.23	ug/m3			07/17/19 06:10	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			07/17/19 06:10	1
n-Heptane	110		0.82	0.57	ug/m3			07/17/19 06:10	1
Trichloroethene	18		0.19	0.16	ug/m3			07/17/19 06:10	1
Methyl methacrylate	2.0	U	2.0	0.90	ug/m3			07/17/19 06:10	1
1,2-Dichloropropane	0.92	U	0.92	0.55	ug/m3			07/17/19 06:10	1
1,4-Dioxane	18	U	18	4.7	ug/m3			07/17/19 06:10	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			07/17/19 06:10	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			07/17/19 06:10	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	1.5	ug/m3			07/17/19 06:10	1
Toluene	150	E	0.75	0.26	ug/m3			07/17/19 06:10	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			07/17/19 06:10	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			07/17/19 06:10	1
Tetrachloroethene	38		1.4	0.20	ug/m3			07/17/19 06:10	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	1.7	ug/m3			07/17/19 06:10	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			07/17/19 06:10	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			07/17/19 06:10	1
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			07/17/19 06:10	1
Ethylbenzene	31		0.87	0.32	ug/m3			07/17/19 06:10	1
m,p-Xylene	100		2.2	0.30	ug/m3			07/17/19 06:10	1
o-Xylene	26		0.87	0.31	ug/m3			07/17/19 06:10	1
Styrene	0.85	U	0.85	0.37	ug/m3			07/17/19 06:10	1
Bromoform	2.1	U	2.1	0.89	ug/m3			07/17/19 06:10	1
Cumene	0.98	U	0.98	0.29	ug/m3			07/17/19 06:10	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			07/17/19 06:10	1
n-Propylbenzene	0.98	U	0.98	0.34	ug/m3			07/17/19 06:10	1
4-Ethyltoluene	7.4		0.98	0.34	ug/m3			07/17/19 06:10	1

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	5.7		0.98	0.29	ug/m3			07/17/19 06:10	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			07/17/19 06:10	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			07/17/19 06:10	1
1,2,4-Trimethylbenzene	9.8		0.98	0.39	ug/m3			07/17/19 06:10	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			07/17/19 06:10	1
4-Isopropyltoluene	1.6		1.1	0.41	ug/m3			07/17/19 06:10	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			07/17/19 06:10	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			07/17/19 06:10	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			07/17/19 06:10	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			07/17/19 06:10	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			07/17/19 06:10	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			07/17/19 06:10	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			07/17/19 06:10	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			07/17/19 06:10	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.7		0.50	0.20	ppb v/v			07/17/19 06:10	1
Chlorodifluoromethane	0.50	U	0.50	0.26	ppb v/v			07/17/19 06:10	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			07/17/19 06:10	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			07/17/19 06:10	1
n-Butane	17		0.50	0.31	ppb v/v			07/17/19 06:10	1
Vinyl chloride	0.12		0.035	0.041	ppb v/v			07/17/19 06:10	1
1,3-Butadiene	0.22		0.20	0.065	ppb v/v			07/17/19 06:10	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			07/17/19 06:10	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			07/17/19 06:10	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			07/17/19 06:10	1
Trichlorofluoromethane	0.39		0.20	0.062	ppb v/v			07/17/19 06:10	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.031	ppb v/v			07/17/19 06:10	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			07/17/19 06:10	1
Acetone	42 E		5.0	2.6	ppb v/v			07/17/19 06:10	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			07/17/19 06:10	1
Carbon disulfide	33		0.50	0.12	ppb v/v			07/17/19 06:10	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			07/17/19 06:10	1
Methylene Chloride	0.50	U	0.50	0.20	ppb v/v			07/17/19 06:10	1
tert-Butyl alcohol	5.0	U	5.0	1.5	ppb v/v			07/17/19 06:10	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			07/17/19 06:10	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			07/17/19 06:10	1
n-Hexane	30		0.20	0.16	ppb v/v			07/17/19 06:10	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			07/17/19 06:10	1
Methyl Ethyl Ketone (2-Butanone)	4.3		0.50	0.20	ppb v/v			07/17/19 06:10	1
cis-1,2-Dichloroethene	1.7		0.035	0.037	ppb v/v			07/17/19 06:10	1
Chloroform	2.3		0.20	0.052	ppb v/v			07/17/19 06:10	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			07/17/19 06:10	1
1,1,1-Trichloroethane	0.20	U	0.20	0.068	ppb v/v			07/17/19 06:10	1
Cyclohexane	40 E		0.20	0.063	ppb v/v			07/17/19 06:10	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			07/17/19 06:10	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.088	ppb v/v			07/17/19 06:10	1
Benzene	6.1		0.20	0.071	ppb v/v			07/17/19 06:10	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			07/17/19 06:10	1

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	26		0.20	0.14	ppb v/v			07/17/19 06:10	1
Trichloroethene	3.4		0.035	0.030	ppb v/v			07/17/19 06:10	1
Methyl methacrylate	0.50	U	0.50	0.22	ppb v/v			07/17/19 06:10	1
1,2-Dichloropropane	0.20	U	0.20	0.12	ppb v/v			07/17/19 06:10	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			07/17/19 06:10	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			07/17/19 06:10	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			07/17/19 06:10	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.36	ppb v/v			07/17/19 06:10	1
Toluene	41 E		0.20	0.069	ppb v/v			07/17/19 06:10	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			07/17/19 06:10	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			07/17/19 06:10	1
Tetrachloroethene	5.6		0.20	0.029	ppb v/v			07/17/19 06:10	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.42	ppb v/v			07/17/19 06:10	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			07/17/19 06:10	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			07/17/19 06:10	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			07/17/19 06:10	1
Ethylbenzene	7.2		0.20	0.073	ppb v/v			07/17/19 06:10	1
m,p-Xylene	24		0.50	0.070	ppb v/v			07/17/19 06:10	1
o-Xylene	5.9		0.20	0.071	ppb v/v			07/17/19 06:10	1
Styrene	0.20	U	0.20	0.086	ppb v/v			07/17/19 06:10	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			07/17/19 06:10	1
Cumene	0.20	U	0.20	0.059	ppb v/v			07/17/19 06:10	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			07/17/19 06:10	1
n-Propylbenzene	0.20	U	0.20	0.069	ppb v/v			07/17/19 06:10	1
4-Ethyltoluene	1.5		0.20	0.069	ppb v/v			07/17/19 06:10	1
1,3,5-Trimethylbenzene	1.2		0.20	0.058	ppb v/v			07/17/19 06:10	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			07/17/19 06:10	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			07/17/19 06:10	1
1,2,4-Trimethylbenzene	2.0		0.20	0.080	ppb v/v			07/17/19 06:10	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			07/17/19 06:10	1
4-Isopropyltoluene	0.30		0.20	0.075	ppb v/v			07/17/19 06:10	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			07/17/19 06:10	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			07/17/19 06:10	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			07/17/19 06:10	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			07/17/19 06:10	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			07/17/19 06:10	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			07/17/19 06:10	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			07/17/19 06:10	1
Naphthalene	0.50	U	0.50	0.31	ppb v/v			07/17/19 06:10	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	8.9 D		4.9	2.0	ug/m3			07/17/19 07:03	2
Chlorodifluoromethane	3.5	U	3.5	1.8	ug/m3			07/17/19 07:03	2
1,2-Dichlorotetrafluoroethane	2.8	U	2.8	0.95	ug/m3			07/17/19 07:03	2
Chloromethane	2.1	U	2.1	1.0	ug/m3			07/17/19 07:03	2
n-Butane	37 D		2.4	1.5	ug/m3			07/17/19 07:03	2
Vinyl chloride	0.22 D		0.18	0.21	ug/m3			07/17/19 07:03	2

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Butadiene	0.43	J D	0.88	0.29	ug/m3			07/17/19 07:03	2
Bromomethane	1.6	U	1.6	0.48	ug/m3			07/17/19 07:03	2
Chloroethane	2.6	U	2.6	1.1	ug/m3			07/17/19 07:03	2
Bromoethene(Vinyl Bromide)	1.7	U	1.7	0.49	ug/m3			07/17/19 07:03	2
Trichlorofluoromethane	2.2	D	2.2	0.70	ug/m3			07/17/19 07:03	2
1,1,2-Trichlorotrifluoroethane	3.1	U	3.1	0.48	ug/m3			07/17/19 07:03	2
1,1-Dichloroethene	0.28	U	0.28	0.27	ug/m3			07/17/19 07:03	2
Acetone	96	D	24	12	ug/m3			07/17/19 07:03	2
Isopropyl alcohol	25	U	25	8.8	ug/m3			07/17/19 07:03	2
Carbon disulfide	100	D	3.1	0.75	ug/m3			07/17/19 07:03	2
3-Chloropropene	3.1	U	3.1	1.7	ug/m3			07/17/19 07:03	2
Methylene Chloride	3.5	U	3.5	1.4	ug/m3			07/17/19 07:03	2
tert-Butyl alcohol	30	U	30	9.1	ug/m3			07/17/19 07:03	2
Methyl tert-butyl ether	1.4	U	1.4	0.44	ug/m3			07/17/19 07:03	2
trans-1,2-Dichloroethene	1.6	U	1.6	0.59	ug/m3			07/17/19 07:03	2
n-Hexane	100	D	1.4	1.1	ug/m3			07/17/19 07:03	2
1,1-Dichloroethane	1.6	U	1.6	0.21	ug/m3			07/17/19 07:03	2
Methyl Ethyl Ketone (2-Butanone)	13	D	2.9	1.2	ug/m3			07/17/19 07:03	2
cis-1,2-Dichloroethene	6.8	D	0.28	0.29	ug/m3			07/17/19 07:03	2
Chloroform	11	D	2.0	0.51	ug/m3			07/17/19 07:03	2
Tetrahydrofuran	29	U	29	15	ug/m3			07/17/19 07:03	2
1,1,1-Trichloroethane	2.2	U	2.2	0.74	ug/m3			07/17/19 07:03	2
Cyclohexane	140	D	1.4	0.43	ug/m3			07/17/19 07:03	2
Carbon tetrachloride	0.44	U	0.44	0.30	ug/m3			07/17/19 07:03	2
2,2,4-Trimethylpentane	1.9	U	1.9	0.82	ug/m3			07/17/19 07:03	2
Benzene	20	D	1.3	0.45	ug/m3			07/17/19 07:03	2
1,2-Dichloroethane	1.6	U	1.6	0.51	ug/m3			07/17/19 07:03	2
n-Heptane	100	D	1.6	1.1	ug/m3			07/17/19 07:03	2
Trichloroethene	19	D	0.38	0.32	ug/m3			07/17/19 07:03	2
Methyl methacrylate	4.1	U	4.1	1.8	ug/m3			07/17/19 07:03	2
1,2-Dichloropropane	1.8	U	1.8	1.1	ug/m3			07/17/19 07:03	2
1,4-Dioxane	36	U	36	9.4	ug/m3			07/17/19 07:03	2
Bromodichloromethane	2.7	U	2.7	1.3	ug/m3			07/17/19 07:03	2
cis-1,3-Dichloropropene	1.8	U	1.8	0.89	ug/m3			07/17/19 07:03	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	4.1	U	4.1	2.9	ug/m3			07/17/19 07:03	2
Toluene	180	D	1.5	0.52	ug/m3			07/17/19 07:03	2
trans-1,3-Dichloropropene	1.8	U	1.8	1.1	ug/m3			07/17/19 07:03	2
1,1,2-Trichloroethane	2.2	U	2.2	0.85	ug/m3			07/17/19 07:03	2
Tetrachloroethene	45	D	2.7	0.39	ug/m3			07/17/19 07:03	2
Methyl Butyl Ketone (2-Hexanone)	4.1	U	4.1	3.4	ug/m3			07/17/19 07:03	2
Dibromochloromethane	3.4	U	3.4	1.2	ug/m3			07/17/19 07:03	2
1,2-Dibromoethane	3.1	U	3.1	1.1	ug/m3			07/17/19 07:03	2
Chlorobenzene	1.8	U	1.8	0.37	ug/m3			07/17/19 07:03	2
Ethylbenzene	36	D	1.7	0.63	ug/m3			07/17/19 07:03	2
m,p-Xylene	120	D	4.3	0.61	ug/m3			07/17/19 07:03	2
o-Xylene	30	D	1.7	0.62	ug/m3			07/17/19 07:03	2
Styrene	1.7	U	1.7	0.73	ug/m3			07/17/19 07:03	2
Bromoform	4.1	U	4.1	1.8	ug/m3			07/17/19 07:03	2

Eurofins TestAmerica, Burlington

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cumene	2.0	U	2.0	0.58	ug/m3			07/17/19 07:03	2
1,1,2,2-Tetrachloroethane	2.7	U	2.7	1.0	ug/m3			07/17/19 07:03	2
n-Propylbenzene	2.0	U	2.0	0.68	ug/m3			07/17/19 07:03	2
4-Ethyltoluene	8.9	D	2.0	0.68	ug/m3			07/17/19 07:03	2
1,3,5-Trimethylbenzene	6.6	D	2.0	0.57	ug/m3			07/17/19 07:03	2
2-Chlorotoluene	2.1	U	2.1	0.74	ug/m3			07/17/19 07:03	2
tert-Butylbenzene	2.2	U	2.2	0.64	ug/m3			07/17/19 07:03	2
1,2,4-Trimethylbenzene	11	D	2.0	0.79	ug/m3			07/17/19 07:03	2
sec-Butylbenzene	2.2	U	2.2	0.72	ug/m3			07/17/19 07:03	2
4-Isopropyltoluene	1.9	J D	2.2	0.82	ug/m3			07/17/19 07:03	2
1,3-Dichlorobenzene	2.4	U	2.4	0.99	ug/m3			07/17/19 07:03	2
1,4-Dichlorobenzene	2.4	U	2.4	0.78	ug/m3			07/17/19 07:03	2
Benzyl chloride	2.1	U	2.1	1.2	ug/m3			07/17/19 07:03	2
n-Butylbenzene	2.2	U	2.2	0.88	ug/m3			07/17/19 07:03	2
1,2-Dichlorobenzene	2.4	U	2.4	0.85	ug/m3			07/17/19 07:03	2
1,2,4-Trichlorobenzene	7.4	U	7.4	3.6	ug/m3			07/17/19 07:03	2
Hexachlorobutadiene	4.3	U	4.3	1.7	ug/m3			07/17/19 07:03	2
Naphthalene	5.2	U	5.2	3.3	ug/m3			07/17/19 07:03	2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.8	D	1.0	0.40	ppb v/v			07/17/19 07:03	2
Chlorodifluoromethane	1.0	U	1.0	0.52	ppb v/v			07/17/19 07:03	2
1,2-Dichlorotetrafluoroethane	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
Chloromethane	1.0	U	1.0	0.50	ppb v/v			07/17/19 07:03	2
n-Butane	15	D	1.0	0.62	ppb v/v			07/17/19 07:03	2
Vinyl chloride	0.087	D	0.070	0.082	ppb v/v			07/17/19 07:03	2
1,3-Butadiene	0.19	J D	0.40	0.13	ppb v/v			07/17/19 07:03	2
Bromomethane	0.40	U	0.40	0.12	ppb v/v			07/17/19 07:03	2
Chloroethane	1.0	U	1.0	0.42	ppb v/v			07/17/19 07:03	2
Bromoethene(Vinyl Bromide)	0.40	U	0.40	0.11	ppb v/v			07/17/19 07:03	2
Trichlorofluoromethane	0.39	D	0.40	0.12	ppb v/v			07/17/19 07:03	2
1,1,2-Trichlorotrifluoroethane	0.40	U	0.40	0.062	ppb v/v			07/17/19 07:03	2
1,1-Dichloroethene	0.070	U	0.070	0.068	ppb v/v			07/17/19 07:03	2
Acetone	41	D	10	5.2	ppb v/v			07/17/19 07:03	2
Isopropyl alcohol	10	U	10	3.6	ppb v/v			07/17/19 07:03	2
Carbon disulfide	33	D	1.0	0.24	ppb v/v			07/17/19 07:03	2
3-Chloropropene	1.0	U	1.0	0.54	ppb v/v			07/17/19 07:03	2
Methylene Chloride	1.0	U	1.0	0.40	ppb v/v			07/17/19 07:03	2
tert-Butyl alcohol	10	U	10	3.0	ppb v/v			07/17/19 07:03	2
Methyl tert-butyl ether	0.40	U	0.40	0.12	ppb v/v			07/17/19 07:03	2
trans-1,2-Dichloroethene	0.40	U	0.40	0.15	ppb v/v			07/17/19 07:03	2
n-Hexane	30	D	0.40	0.32	ppb v/v			07/17/19 07:03	2
1,1-Dichloroethane	0.40	U	0.40	0.052	ppb v/v			07/17/19 07:03	2
Methyl Ethyl Ketone (2-Butanone)	4.5	D	1.0	0.40	ppb v/v			07/17/19 07:03	2
cis-1,2-Dichloroethene	1.7	D	0.070	0.074	ppb v/v			07/17/19 07:03	2
Chloroform	2.2	D	0.40	0.10	ppb v/v			07/17/19 07:03	2
Tetrahydrofuran	10	U	10	5.2	ppb v/v			07/17/19 07:03	2
1,1,1-Trichloroethane	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
Cyclohexane	41	D	0.40	0.13	ppb v/v			07/17/19 07:03	2

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.070	U	0.070	0.048	ppb v/v			07/17/19 07:03	2
2,2,4-Trimethylpentane	0.40	U	0.40	0.18	ppb v/v			07/17/19 07:03	2
Benzene	6.2	D	0.40	0.14	ppb v/v			07/17/19 07:03	2
1,2-Dichloroethane	0.40	U	0.40	0.13	ppb v/v			07/17/19 07:03	2
n-Heptane	25	D	0.40	0.28	ppb v/v			07/17/19 07:03	2
Trichloroethene	3.5	D	0.070	0.060	ppb v/v			07/17/19 07:03	2
Methyl methacrylate	1.0	U	1.0	0.44	ppb v/v			07/17/19 07:03	2
1,2-Dichloropropane	0.40	U	0.40	0.24	ppb v/v			07/17/19 07:03	2
1,4-Dioxane	10	U	10	2.6	ppb v/v			07/17/19 07:03	2
Bromodichloromethane	0.40	U	0.40	0.19	ppb v/v			07/17/19 07:03	2
cis-1,3-Dichloropropene	0.40	U	0.40	0.20	ppb v/v			07/17/19 07:03	2
4-Methyl-2-pentanone (Methyl isobutyl ketone)	1.0	U	1.0	0.72	ppb v/v			07/17/19 07:03	2
Toluene	46	D	0.40	0.14	ppb v/v			07/17/19 07:03	2
trans-1,3-Dichloropropene	0.40	U	0.40	0.24	ppb v/v			07/17/19 07:03	2
1,1,2-Trichloroethane	0.40	U	0.40	0.16	ppb v/v			07/17/19 07:03	2
Tetrachloroethene	6.7	D	0.40	0.058	ppb v/v			07/17/19 07:03	2
Methyl Butyl Ketone (2-Hexanone)	1.0	U	1.0	0.84	ppb v/v			07/17/19 07:03	2
Dibromochloromethane	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
1,2-Dibromoethane	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
Chlorobenzene	0.40	U	0.40	0.080	ppb v/v			07/17/19 07:03	2
Ethylbenzene	8.4	D	0.40	0.15	ppb v/v			07/17/19 07:03	2
m,p-Xylene	27	D	1.0	0.14	ppb v/v			07/17/19 07:03	2
o-Xylene	6.9	D	0.40	0.14	ppb v/v			07/17/19 07:03	2
Styrene	0.40	U	0.40	0.17	ppb v/v			07/17/19 07:03	2
Bromoform	0.40	U	0.40	0.17	ppb v/v			07/17/19 07:03	2
Cumene	0.40	U	0.40	0.12	ppb v/v			07/17/19 07:03	2
1,1,2,2-Tetrachloroethane	0.40	U	0.40	0.15	ppb v/v			07/17/19 07:03	2
n-Propylbenzene	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
4-Ethyltoluene	1.8	D	0.40	0.14	ppb v/v			07/17/19 07:03	2
1,3,5-Trimethylbenzene	1.3	D	0.40	0.12	ppb v/v			07/17/19 07:03	2
2-Chlorotoluene	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
tert-Butylbenzene	0.40	U	0.40	0.12	ppb v/v			07/17/19 07:03	2
1,2,4-Trimethylbenzene	2.3	D	0.40	0.16	ppb v/v			07/17/19 07:03	2
sec-Butylbenzene	0.40	U	0.40	0.13	ppb v/v			07/17/19 07:03	2
4-Isopropyltoluene	0.35	J D	0.40	0.15	ppb v/v			07/17/19 07:03	2
1,3-Dichlorobenzene	0.40	U	0.40	0.16	ppb v/v			07/17/19 07:03	2
1,4-Dichlorobenzene	0.40	U	0.40	0.13	ppb v/v			07/17/19 07:03	2
Benzyl chloride	0.40	U	0.40	0.24	ppb v/v			07/17/19 07:03	2
n-Butylbenzene	0.40	U	0.40	0.16	ppb v/v			07/17/19 07:03	2
1,2-Dichlorobenzene	0.40	U	0.40	0.14	ppb v/v			07/17/19 07:03	2
1,2,4-Trichlorobenzene	1.0	U	1.0	0.48	ppb v/v			07/17/19 07:03	2
Hexachlorobutadiene	0.40	U	0.40	0.16	ppb v/v			07/17/19 07:03	2
Naphthalene	1.0	U	1.0	0.62	ppb v/v			07/17/19 07:03	2

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-145122/4
Matrix: Air
Analysis Batch: 145122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	2.5	U	2.5	0.99	ug/m3			07/16/19 13:31	1
Chlorodifluoromethane	1.8	U	1.8	0.92	ug/m3			07/16/19 13:31	1
1,2-Dichlorotetrafluoroethane	1.4	U	1.4	0.48	ug/m3			07/16/19 13:31	1
Chloromethane	1.0	U	1.0	0.52	ug/m3			07/16/19 13:31	1
n-Butane	1.2	U	1.2	0.74	ug/m3			07/16/19 13:31	1
Vinyl chloride	0.090	U	0.090	0.10	ug/m3			07/16/19 13:31	1
1,3-Butadiene	0.44	U	0.44	0.14	ug/m3			07/16/19 13:31	1
Bromomethane	0.78	U	0.78	0.24	ug/m3			07/16/19 13:31	1
Chloroethane	1.3	U	1.3	0.55	ug/m3			07/16/19 13:31	1
Bromoethene(Vinyl Bromide)	0.87	U	0.87	0.24	ug/m3			07/16/19 13:31	1
Trichlorofluoromethane	1.1	U	1.1	0.35	ug/m3			07/16/19 13:31	1
1,1,2-Trichlorotrifluoroethane	1.5	U	1.5	0.24	ug/m3			07/16/19 13:31	1
1,1-Dichloroethene	0.14	U	0.14	0.13	ug/m3			07/16/19 13:31	1
Acetone	12	U	12	6.2	ug/m3			07/16/19 13:31	1
Isopropyl alcohol	12	U	12	4.4	ug/m3			07/16/19 13:31	1
Carbon disulfide	1.6	U	1.6	0.37	ug/m3			07/16/19 13:31	1
3-Chloropropene	1.6	U	1.6	0.85	ug/m3			07/16/19 13:31	1
Methylene Chloride	1.7	U	1.7	0.69	ug/m3			07/16/19 13:31	1
tert-Butyl alcohol	15	U	15	4.5	ug/m3			07/16/19 13:31	1
Methyl tert-butyl ether	0.72	U	0.72	0.22	ug/m3			07/16/19 13:31	1
trans-1,2-Dichloroethene	0.79	U	0.79	0.29	ug/m3			07/16/19 13:31	1
n-Hexane	0.70	U	0.70	0.56	ug/m3			07/16/19 13:31	1
1,1-Dichloroethane	0.81	U	0.81	0.11	ug/m3			07/16/19 13:31	1
Methyl Ethyl Ketone (2-Butanone)	1.5	U	1.5	0.59	ug/m3			07/16/19 13:31	1
cis-1,2-Dichloroethene	0.14	U	0.14	0.15	ug/m3			07/16/19 13:31	1
Chloroform	0.98	U	0.98	0.25	ug/m3			07/16/19 13:31	1
Tetrahydrofuran	15	U	15	7.7	ug/m3			07/16/19 13:31	1
1,1,1-Trichloroethane	1.1	U	1.1	0.37	ug/m3			07/16/19 13:31	1
Cyclohexane	0.69	U	0.69	0.22	ug/m3			07/16/19 13:31	1
Carbon tetrachloride	0.22	U	0.22	0.15	ug/m3			07/16/19 13:31	1
2,2,4-Trimethylpentane	0.93	U	0.93	0.41	ug/m3			07/16/19 13:31	1
Benzene	0.64	U	0.64	0.23	ug/m3			07/16/19 13:31	1
1,2-Dichloroethane	0.81	U	0.81	0.25	ug/m3			07/16/19 13:31	1
n-Heptane	0.82	U	0.82	0.57	ug/m3			07/16/19 13:31	1
Trichloroethene	0.19	U	0.19	0.16	ug/m3			07/16/19 13:31	1
Methyl methacrylate	2.0	U	2.0	0.90	ug/m3			07/16/19 13:31	1
1,2-Dichloropropane	0.92	U	0.92	0.55	ug/m3			07/16/19 13:31	1
1,4-Dioxane	18	U	18	4.7	ug/m3			07/16/19 13:31	1
Bromodichloromethane	1.3	U	1.3	0.63	ug/m3			07/16/19 13:31	1
cis-1,3-Dichloropropene	0.91	U	0.91	0.44	ug/m3			07/16/19 13:31	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	2.0	U	2.0	1.5	ug/m3			07/16/19 13:31	1
Toluene	0.75	U	0.75	0.26	ug/m3			07/16/19 13:31	1
trans-1,3-Dichloropropene	0.91	U	0.91	0.54	ug/m3			07/16/19 13:31	1
1,1,2-Trichloroethane	1.1	U	1.1	0.43	ug/m3			07/16/19 13:31	1
Tetrachloroethene	1.4	U	1.4	0.20	ug/m3			07/16/19 13:31	1
Methyl Butyl Ketone (2-Hexanone)	2.0	U	2.0	1.7	ug/m3			07/16/19 13:31	1
Dibromochloromethane	1.7	U	1.7	0.60	ug/m3			07/16/19 13:31	1
1,2-Dibromoethane	1.5	U	1.5	0.53	ug/m3			07/16/19 13:31	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-145122/4
Matrix: Air
Analysis Batch: 145122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chlorobenzene	0.92	U	0.92	0.18	ug/m3			07/16/19 13:31	1
Ethylbenzene	0.87	U	0.87	0.32	ug/m3			07/16/19 13:31	1
m,p-Xylene	2.2	U	2.2	0.30	ug/m3			07/16/19 13:31	1
o-Xylene	0.87	U	0.87	0.31	ug/m3			07/16/19 13:31	1
Styrene	0.85	U	0.85	0.37	ug/m3			07/16/19 13:31	1
Bromoform	2.1	U	2.1	0.89	ug/m3			07/16/19 13:31	1
Cumene	0.98	U	0.98	0.29	ug/m3			07/16/19 13:31	1
1,1,2,2-Tetrachloroethane	1.4	U	1.4	0.52	ug/m3			07/16/19 13:31	1
n-Propylbenzene	0.98	U	0.98	0.34	ug/m3			07/16/19 13:31	1
4-Ethyltoluene	0.98	U	0.98	0.34	ug/m3			07/16/19 13:31	1
1,3,5-Trimethylbenzene	0.98	U	0.98	0.29	ug/m3			07/16/19 13:31	1
2-Chlorotoluene	1.0	U	1.0	0.37	ug/m3			07/16/19 13:31	1
tert-Butylbenzene	1.1	U	1.1	0.32	ug/m3			07/16/19 13:31	1
1,2,4-Trimethylbenzene	0.98	U	0.98	0.39	ug/m3			07/16/19 13:31	1
sec-Butylbenzene	1.1	U	1.1	0.36	ug/m3			07/16/19 13:31	1
4-Isopropyltoluene	1.1	U	1.1	0.41	ug/m3			07/16/19 13:31	1
1,3-Dichlorobenzene	1.2	U	1.2	0.49	ug/m3			07/16/19 13:31	1
1,4-Dichlorobenzene	1.2	U	1.2	0.39	ug/m3			07/16/19 13:31	1
Benzyl chloride	1.0	U	1.0	0.62	ug/m3			07/16/19 13:31	1
n-Butylbenzene	1.1	U	1.1	0.44	ug/m3			07/16/19 13:31	1
1,2-Dichlorobenzene	1.2	U	1.2	0.43	ug/m3			07/16/19 13:31	1
1,2,4-Trichlorobenzene	3.7	U	3.7	1.8	ug/m3			07/16/19 13:31	1
Hexachlorobutadiene	2.1	U	2.1	0.87	ug/m3			07/16/19 13:31	1
Naphthalene	2.6	U	2.6	1.6	ug/m3			07/16/19 13:31	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dichlorodifluoromethane	0.50	U	0.50	0.20	ppb v/v			07/16/19 13:31	1
Chlorodifluoromethane	0.50	U	0.50	0.26	ppb v/v			07/16/19 13:31	1
1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.068	ppb v/v			07/16/19 13:31	1
Chloromethane	0.50	U	0.50	0.25	ppb v/v			07/16/19 13:31	1
n-Butane	0.50	U	0.50	0.31	ppb v/v			07/16/19 13:31	1
Vinyl chloride	0.035	U	0.035	0.041	ppb v/v			07/16/19 13:31	1
1,3-Butadiene	0.20	U	0.20	0.065	ppb v/v			07/16/19 13:31	1
Bromomethane	0.20	U	0.20	0.062	ppb v/v			07/16/19 13:31	1
Chloroethane	0.50	U	0.50	0.21	ppb v/v			07/16/19 13:31	1
Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.056	ppb v/v			07/16/19 13:31	1
Trichlorofluoromethane	0.20	U	0.20	0.062	ppb v/v			07/16/19 13:31	1
1,1,2-Trichlorotrifluoroethane	0.20	U	0.20	0.031	ppb v/v			07/16/19 13:31	1
1,1-Dichloroethene	0.035	U	0.035	0.034	ppb v/v			07/16/19 13:31	1
Acetone	5.0	U	5.0	2.6	ppb v/v			07/16/19 13:31	1
Isopropyl alcohol	5.0	U	5.0	1.8	ppb v/v			07/16/19 13:31	1
Carbon disulfide	0.50	U	0.50	0.12	ppb v/v			07/16/19 13:31	1
3-Chloropropene	0.50	U	0.50	0.27	ppb v/v			07/16/19 13:31	1
Methylene Chloride	0.50	U	0.50	0.20	ppb v/v			07/16/19 13:31	1
tert-Butyl alcohol	5.0	U	5.0	1.5	ppb v/v			07/16/19 13:31	1
Methyl tert-butyl ether	0.20	U	0.20	0.061	ppb v/v			07/16/19 13:31	1
trans-1,2-Dichloroethene	0.20	U	0.20	0.074	ppb v/v			07/16/19 13:31	1
n-Hexane	0.20	U	0.20	0.16	ppb v/v			07/16/19 13:31	1
1,1-Dichloroethane	0.20	U	0.20	0.026	ppb v/v			07/16/19 13:31	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-145122/4
Matrix: Air
Analysis Batch: 145122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methyl Ethyl Ketone (2-Butanone)	0.50	U	0.50	0.20	ppb v/v			07/16/19 13:31	1
cis-1,2-Dichloroethene	0.035	U	0.035	0.037	ppb v/v			07/16/19 13:31	1
Chloroform	0.20	U	0.20	0.052	ppb v/v			07/16/19 13:31	1
Tetrahydrofuran	5.0	U	5.0	2.6	ppb v/v			07/16/19 13:31	1
1,1,1-Trichloroethane	0.20	U	0.20	0.068	ppb v/v			07/16/19 13:31	1
Cyclohexane	0.20	U	0.20	0.063	ppb v/v			07/16/19 13:31	1
Carbon tetrachloride	0.035	U	0.035	0.024	ppb v/v			07/16/19 13:31	1
2,2,4-Trimethylpentane	0.20	U	0.20	0.088	ppb v/v			07/16/19 13:31	1
Benzene	0.20	U	0.20	0.071	ppb v/v			07/16/19 13:31	1
1,2-Dichloroethane	0.20	U	0.20	0.063	ppb v/v			07/16/19 13:31	1
n-Heptane	0.20	U	0.20	0.14	ppb v/v			07/16/19 13:31	1
Trichloroethene	0.035	U	0.035	0.030	ppb v/v			07/16/19 13:31	1
Methyl methacrylate	0.50	U	0.50	0.22	ppb v/v			07/16/19 13:31	1
1,2-Dichloropropane	0.20	U	0.20	0.12	ppb v/v			07/16/19 13:31	1
1,4-Dioxane	5.0	U	5.0	1.3	ppb v/v			07/16/19 13:31	1
Bromodichloromethane	0.20	U	0.20	0.094	ppb v/v			07/16/19 13:31	1
cis-1,3-Dichloropropene	0.20	U	0.20	0.098	ppb v/v			07/16/19 13:31	1
4-Methyl-2-pentanone (Methyl isobutyl ketone)	0.50	U	0.50	0.36	ppb v/v			07/16/19 13:31	1
Toluene	0.20	U	0.20	0.069	ppb v/v			07/16/19 13:31	1
trans-1,3-Dichloropropene	0.20	U	0.20	0.12	ppb v/v			07/16/19 13:31	1
1,1,2-Trichloroethane	0.20	U	0.20	0.078	ppb v/v			07/16/19 13:31	1
Tetrachloroethene	0.20	U	0.20	0.029	ppb v/v			07/16/19 13:31	1
Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.42	ppb v/v			07/16/19 13:31	1
Dibromochloromethane	0.20	U	0.20	0.071	ppb v/v			07/16/19 13:31	1
1,2-Dibromoethane	0.20	U	0.20	0.069	ppb v/v			07/16/19 13:31	1
Chlorobenzene	0.20	U	0.20	0.040	ppb v/v			07/16/19 13:31	1
Ethylbenzene	0.20	U	0.20	0.073	ppb v/v			07/16/19 13:31	1
m,p-Xylene	0.50	U	0.50	0.070	ppb v/v			07/16/19 13:31	1
o-Xylene	0.20	U	0.20	0.071	ppb v/v			07/16/19 13:31	1
Styrene	0.20	U	0.20	0.086	ppb v/v			07/16/19 13:31	1
Bromoform	0.20	U	0.20	0.086	ppb v/v			07/16/19 13:31	1
Cumene	0.20	U	0.20	0.059	ppb v/v			07/16/19 13:31	1
1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.076	ppb v/v			07/16/19 13:31	1
n-Propylbenzene	0.20	U	0.20	0.069	ppb v/v			07/16/19 13:31	1
4-Ethyltoluene	0.20	U	0.20	0.069	ppb v/v			07/16/19 13:31	1
1,3,5-Trimethylbenzene	0.20	U	0.20	0.058	ppb v/v			07/16/19 13:31	1
2-Chlorotoluene	0.20	U	0.20	0.071	ppb v/v			07/16/19 13:31	1
tert-Butylbenzene	0.20	U	0.20	0.058	ppb v/v			07/16/19 13:31	1
1,2,4-Trimethylbenzene	0.20	U	0.20	0.080	ppb v/v			07/16/19 13:31	1
sec-Butylbenzene	0.20	U	0.20	0.066	ppb v/v			07/16/19 13:31	1
4-Isopropyltoluene	0.20	U	0.20	0.075	ppb v/v			07/16/19 13:31	1
1,3-Dichlorobenzene	0.20	U	0.20	0.082	ppb v/v			07/16/19 13:31	1
1,4-Dichlorobenzene	0.20	U	0.20	0.065	ppb v/v			07/16/19 13:31	1
Benzyl chloride	0.20	U	0.20	0.12	ppb v/v			07/16/19 13:31	1
n-Butylbenzene	0.20	U	0.20	0.080	ppb v/v			07/16/19 13:31	1
1,2-Dichlorobenzene	0.20	U	0.20	0.071	ppb v/v			07/16/19 13:31	1
1,2,4-Trichlorobenzene	0.50	U	0.50	0.24	ppb v/v			07/16/19 13:31	1
Hexachlorobutadiene	0.20	U	0.20	0.082	ppb v/v			07/16/19 13:31	1

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-145122/4
Matrix: Air
Analysis Batch: 145122

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	0.50	U	0.50	0.31	ppb v/v			07/16/19 13:31	1

Lab Sample ID: LCS 200-145122/3
Matrix: Air
Analysis Batch: 145122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49.4	46.6		ug/m3		94	61 - 142
Chlorodifluoromethane	35.4	34.8		ug/m3		98	60 - 147
1,2-Dichlorotetrafluoroethane	69.9	68.6		ug/m3		98	71 - 141
Chloromethane	20.6	19.0		ug/m3		92	56 - 141
n-Butane	23.8	22.7		ug/m3		96	53 - 151
Vinyl chloride	25.6	23.7		ug/m3		93	61 - 135
1,3-Butadiene	22.1	21.2		ug/m3		96	58 - 139
Bromomethane	38.8	37.8		ug/m3		97	72 - 124
Chloroethane	26.4	26.7		ug/m3		101	68 - 130
Bromoethene(Vinyl Bromide)	43.7	46.2		ug/m3		106	75 - 125
Trichlorofluoromethane	56.2	57.1		ug/m3		102	70 - 129
1,1,2-Trichlorotrifluoroethane	76.6	63.4		ug/m3		83	70 - 121
1,1-Dichloroethene	39.6	33.0		ug/m3		83	68 - 120
Acetone	23.7	22.4		ug/m3		94	54 - 154
Isopropyl alcohol	24.6	22.2		ug/m3		90	53 - 142
Carbon disulfide	31.1	29.7		ug/m3		96	71 - 138
3-Chloropropene	31.3	25.7		ug/m3		82	50 - 150
Methylene Chloride	34.7	30.4		ug/m3		88	59 - 137
tert-Butyl alcohol	30.3	29.5		ug/m3		97	66 - 132
Methyl tert-butyl ether	36.0	33.9		ug/m3		94	70 - 127
trans-1,2-Dichloroethene	39.6	38.3		ug/m3		97	69 - 137
n-Hexane	35.2	31.0		ug/m3		88	63 - 138
1,1-Dichloroethane	40.5	38.0		ug/m3		94	66 - 130
Methyl Ethyl Ketone (2-Butanone)	29.5	28.1		ug/m3		95	72 - 124
cis-1,2-Dichloroethene	39.6	36.8		ug/m3		93	72 - 121
Chloroform	48.8	46.4		ug/m3		95	73 - 124
Tetrahydrofuran	29.5	34.0		ug/m3		115	60 - 149
1,1,1-Trichloroethane	54.6	52.8		ug/m3		97	72 - 127
Cyclohexane	34.4	34.4		ug/m3		100	76 - 124
Carbon tetrachloride	62.9	64.3		ug/m3		102	71 - 133
2,2,4-Trimethylpentane	46.7	48.2		ug/m3		103	68 - 131
Benzene	31.9	30.5		ug/m3		96	73 - 119
1,2-Dichloroethane	40.5	39.9		ug/m3		99	68 - 135
n-Heptane	41.0	42.5		ug/m3		104	60 - 142
Trichloroethene	53.7	54.3		ug/m3		101	73 - 122
Methyl methacrylate	40.9	43.8		ug/m3		107	73 - 129
1,2-Dichloropropane	46.2	47.2		ug/m3		102	69 - 128
1,4-Dioxane	36.0	35.1		ug/m3		97	66 - 129
Bromodichloromethane	67.0	69.9		ug/m3		104	75 - 127
cis-1,3-Dichloropropene	45.4	42.7		ug/m3		94	74 - 125

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-145122/3

Matrix: Air

Analysis Batch: 145122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (Methyl isobutyl ketone)	41.0	42.4		ug/m3		104	58 - 144
Toluene	37.7	37.0		ug/m3		98	75 - 122
trans-1,3-Dichloropropene	45.4	45.6		ug/m3		100	74 - 128
1,1,2-Trichloroethane	54.6	56.4		ug/m3		103	75 - 126
Tetrachloroethene	67.8	65.9		ug/m3		97	70 - 125
Methyl Butyl Ketone (2-Hexanone)	41.0	43.5		ug/m3		106	57 - 143
Dibromochloromethane	85.2	88.7		ug/m3		104	73 - 125
1,2-Dibromoethane	76.8	78.1		ug/m3		102	78 - 122
Chlorobenzene	46.0	45.1		ug/m3		98	76 - 119
Ethylbenzene	43.4	43.2		ug/m3		99	74 - 122
m,p-Xylene	86.8	87.6		ug/m3		101	76 - 121
o-Xylene	43.4	43.3		ug/m3		100	73 - 123
Styrene	42.6	43.4		ug/m3		102	74 - 125
Bromoform	103	123		ug/m3		119	53 - 149
Cumene	49.1	50.0		ug/m3		102	73 - 123
1,1,2,2-Tetrachloroethane	68.6	69.2		ug/m3		101	74 - 126
n-Propylbenzene	49.1	51.0		ug/m3		104	73 - 127
4-Ethyltoluene	49.2	51.6		ug/m3		105	75 - 129
1,3,5-Trimethylbenzene	49.2	50.1		ug/m3		102	72 - 126
2-Chlorotoluene	51.8	52.2		ug/m3		101	74 - 126
tert-Butylbenzene	54.9	55.5		ug/m3		101	71 - 125
1,2,4-Trimethylbenzene	49.2	51.5		ug/m3		105	71 - 129
sec-Butylbenzene	54.9	55.6		ug/m3		101	70 - 128
4-Isopropyltoluene	54.9	54.9		ug/m3		100	68 - 130
1,3-Dichlorobenzene	60.1	59.0		ug/m3		98	69 - 131
1,4-Dichlorobenzene	60.1	59.6		ug/m3		99	67 - 132
Benzyl chloride	51.8	50.5		ug/m3		98	60 - 136
n-Butylbenzene	54.9	54.8		ug/m3		100	65 - 137
1,2-Dichlorobenzene	60.1	58.3		ug/m3		97	68 - 129
1,2,4-Trichlorobenzene	74.2	63.6		ug/m3		86	50 - 150
Hexachlorobutadiene	107	94.4		ug/m3		89	58 - 130
Naphthalene	52.4	42.4		ug/m3		81	50 - 150
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10	9.42		ppb v/v		94	61 - 142
Chlorodifluoromethane	10	9.85		ppb v/v		98	60 - 147
1,2-Dichlorotetrafluoroethane	10	9.81		ppb v/v		98	71 - 141
Chloromethane	10	9.19		ppb v/v		92	56 - 141
n-Butane	10	9.56		ppb v/v		96	53 - 151
Vinyl chloride	10	9.25		ppb v/v		93	61 - 135
1,3-Butadiene	10	9.60		ppb v/v		96	58 - 139
Bromomethane	10	9.73		ppb v/v		97	72 - 124
Chloroethane	10	10.1		ppb v/v		101	68 - 130
Bromoethene(Vinyl Bromide)	10	10.6		ppb v/v		106	75 - 125
Trichlorofluoromethane	10	10.2		ppb v/v		102	70 - 129
1,1,2-Trichlorotrifluoroethane	10	8.28		ppb v/v		83	70 - 121
1,1-Dichloroethene	10	8.32		ppb v/v		83	68 - 120

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-145122/3

Matrix: Air

Analysis Batch: 145122

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	10	9.42		ppb v/v		94	54 - 154
Isopropyl alcohol	10	9.03		ppb v/v		90	53 - 142
Carbon disulfide	10	9.55		ppb v/v		96	71 - 138
3-Chloropropene	10	8.20		ppb v/v		82	50 - 150
Methylene Chloride	10	8.76		ppb v/v		88	59 - 137
tert-Butyl alcohol	10	9.74		ppb v/v		97	66 - 132
Methyl tert-butyl ether	10	9.41		ppb v/v		94	70 - 127
trans-1,2-Dichloroethene	10	9.67		ppb v/v		97	69 - 137
n-Hexane	10	8.78		ppb v/v		88	63 - 138
1,1-Dichloroethane	10	9.39		ppb v/v		94	66 - 130
Methyl Ethyl Ketone (2-Butanone)	10	9.54		ppb v/v		95	72 - 124
cis-1,2-Dichloroethene	10	9.28		ppb v/v		93	72 - 121
Chloroform	10	9.50		ppb v/v		95	73 - 124
Tetrahydrofuran	10	11.5		ppb v/v		115	60 - 149
1,1,1-Trichloroethane	10	9.67		ppb v/v		97	72 - 127
Cyclohexane	10	9.99		ppb v/v		100	76 - 124
Carbon tetrachloride	10	10.2		ppb v/v		102	71 - 133
2,2,4-Trimethylpentane	10	10.3		ppb v/v		103	68 - 131
Benzene	10	9.56		ppb v/v		96	73 - 119
1,2-Dichloroethane	10	9.85		ppb v/v		99	68 - 135
n-Heptane	10	10.4		ppb v/v		104	60 - 142
Trichloroethene	10	10.1		ppb v/v		101	73 - 122
Methyl methacrylate	10	10.7		ppb v/v		107	73 - 129
1,2-Dichloropropane	10	10.2		ppb v/v		102	69 - 128
1,4-Dioxane	10	9.74		ppb v/v		97	66 - 129
Bromodichloromethane	10	10.4		ppb v/v		104	75 - 127
cis-1,3-Dichloropropene	10	9.40		ppb v/v		94	74 - 125
4-Methyl-2-pentanone (Methyl isobutyl ketone)	10	10.4		ppb v/v		104	58 - 144
Toluene	10	9.81		ppb v/v		98	75 - 122
trans-1,3-Dichloropropene	10	10.0		ppb v/v		100	74 - 128
1,1,2-Trichloroethane	10	10.3		ppb v/v		103	75 - 126
Tetrachloroethene	10	9.72		ppb v/v		97	70 - 125
Methyl Butyl Ketone (2-Hexanone)	10	10.6		ppb v/v		106	57 - 143
Dibromochloromethane	10	10.4		ppb v/v		104	73 - 125
1,2-Dibromoethane	10	10.2		ppb v/v		102	78 - 122
Chlorobenzene	10	9.80		ppb v/v		98	76 - 119
Ethylbenzene	10	9.94		ppb v/v		99	74 - 122
m,p-Xylene	20	20.2		ppb v/v		101	76 - 121
o-Xylene	10	9.98		ppb v/v		100	73 - 123
Styrene	10	10.2		ppb v/v		102	74 - 125
Bromoform	10	11.9		ppb v/v		119	53 - 149
Cumene	10	10.2		ppb v/v		102	73 - 123
1,1,2,2-Tetrachloroethane	10	10.1		ppb v/v		101	74 - 126
n-Propylbenzene	10	10.4		ppb v/v		104	73 - 127
4-Ethyltoluene	10	10.5		ppb v/v		105	75 - 129
1,3,5-Trimethylbenzene	10	10.2		ppb v/v		102	72 - 126

Eurofins TestAmerica, Burlington

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
 SDG: 200-49613-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-145122/3

Matrix: Air

Analysis Batch: 145122

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chlorotoluene	10	10.1		ppb v/v		101	74 - 126
tert-Butylbenzene	10	10.1		ppb v/v		101	71 - 125
1,2,4-Trimethylbenzene	10	10.5		ppb v/v		105	71 - 129
sec-Butylbenzene	10	10.1		ppb v/v		101	70 - 128
4-Isopropyltoluene	10	10.0		ppb v/v		100	68 - 130
1,3-Dichlorobenzene	10	9.81		ppb v/v		98	69 - 131
1,4-Dichlorobenzene	10	9.91		ppb v/v		99	67 - 132
Benzyl chloride	10	9.76		ppb v/v		98	60 - 136
n-Butylbenzene	10	9.99		ppb v/v		100	65 - 137
1,2-Dichlorobenzene	10	9.70		ppb v/v		97	68 - 129
1,2,4-Trichlorobenzene	10	8.57		ppb v/v		86	50 - 150
Hexachlorobutadiene	10	8.85		ppb v/v		89	58 - 130
Naphthalene	10	8.08		ppb v/v		81	50 - 150

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Air - GC/MS VOA

Analysis Batch: 145122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-49613-1	SV-02_20190710	Total/NA	Air	TO-15	
200-49613-1 - DL	SV-02_20190710	Total/NA	Air	TO-15	
200-49613-2	SV-01_20190710	Total/NA	Air	TO-15	
200-49613-2 - DL	SV-01_20190710	Total/NA	Air	TO-15	
200-49613-3	SV-04_20190710	Total/NA	Air	TO-15	
200-49613-3 - DL	SV-04_20190710	Total/NA	Air	TO-15	
200-49613-4	SV-03_20190712	Total/NA	Air	TO-15	
200-49613-4 - DL	SV-03_20190712	Total/NA	Air	TO-15	
MB 200-145122/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-145122/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Client Sample ID: SV-02_20190710

Lab Sample ID: 200-49613-1

Date Collected: 07/10/19 13:05

Matrix: Air

Date Received: 07/13/19 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		7	145122	07/17/19 00:54	GGG	TAL BUR
Total/NA	Analysis	TO-15	DL	34.77	145122	07/17/19 01:47	GGG	TAL BUR

Client Sample ID: SV-01_20190710

Lab Sample ID: 200-49613-2

Date Collected: 07/10/19 13:40

Matrix: Air

Date Received: 07/13/19 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10.42	145122	07/17/19 02:40	GGG	TAL BUR
Total/NA	Analysis	TO-15	DL	52.1	145122	07/17/19 03:32	GGG	TAL BUR

Client Sample ID: SV-04_20190710

Lab Sample ID: 200-49613-3

Date Collected: 07/10/19 16:25

Matrix: Air

Date Received: 07/13/19 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		9.02	145122	07/17/19 04:25	GGG	TAL BUR
Total/NA	Analysis	TO-15	DL	46.9	145122	07/17/19 05:18	GGG	TAL BUR

Client Sample ID: SV-03_20190712

Lab Sample ID: 200-49613-4

Date Collected: 07/12/19 12:10

Matrix: Air

Date Received: 07/13/19 10:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	145122	07/17/19 06:10	GGG	TAL BUR
Total/NA	Analysis	TO-15	DL	2	145122	07/17/19 07:03	GGG	TAL BUR

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Laboratory: Eurofins TestAmerica, Burlington

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New Jersey	NELAP	2	VT972	06-30-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
TO-15		Air	4-Isopropyltoluene
TO-15		Air	Chlorodifluoromethane
TO-15		Air	Cumene
TO-15		Air	n-Butane
TO-15		Air	n-Butylbenzene
TO-15		Air	n-Propylbenzene
TO-15		Air	sec-Butylbenzene
TO-15		Air	tert-Butylbenzene

Method Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Sample Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue

Job ID: 200-49613-1
SDG: 200-49613-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
200-49613-1	SV-02_20190710	Air	07/10/19 13:05	07/13/19 10:05	Air Canister (6-Liter) #4311
200-49613-2	SV-01_20190710	Air	07/10/19 13:40	07/13/19 10:05	Air Canister (6-Liter) #4429
200-49613-3	SV-04_20190710	Air	07/10/19 16:25	07/13/19 10:05	Air Canister (6-Liter) #5076
200-49613-4	SV-03_20190712	Air	07/12/19 12:10	07/13/19 10:05	Air Canister (6-Liter) #3348

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Flow Controller (FC) Set Flow Rate and Pressure Gauge Leak Check Record

Date Performed		Pre-shipment Check				Post-Sampling Check (PSC)				Shipping Order			
FC ID	Sampling Time	Analyst	Temp (°C)	BP (Hg)	FM ID	FC Gauge Initial (Hg)	FC Gauge Final (Hg)	Flow Rate	Control Gauge Initial (Hg)	Control Gauge Final (Hg)	FC Gauge Initial (Hg)	FC Gauge Final (Hg)	PSC Code
	7/5/19	JW	21.0	30.0	58								
3976	2h		24	23		23	23	0.0	26	26	23	23	1
3300	1		24	24		24	24						
6156	1		24	25		25	25						
4048	1		24	25		25	25						
4043	24h		26	24		24	24						
5344	1		26	25		25	25						
6230	1		26	28		28	28						
4508	1		26	26		26	26						
3117	1		26	26		26	26						
3726	1		26	26		26	26						
4509	1		26	23		23	23						
3984	1		26	26		26	26						
6157	1		26	25		25	25						
3443	1		26	26		26	26						
4751	1		26	26		26	26						
3384	1		26	26		26	26						
4998	1		26	25		25	25						
3026	1		26	26		26	26						
2918	1		26	25		25	25						

7/5/19
3174

Pre-shipment Criteria:

The pre-shipment flow rate must be within the range specified in the set flow rate table for the sampling time requested. The difference between initial and final pressure readings for the control gauge and the FC gauge must be zero.

3L Canister: Set Flow Rates for Various Sampling Times (mL/min)

Time	30 min	60 min	1 hour	2 hour	4 hour	6 hour	8 hour	10 hour	12 hour	16 hour	24 hour	24 hour (W)
Flow Rate	150-195	95-105	79-81	39.5-40.5	19.5-20.5	13.3-13.7	9.8-10.2	7.8-8.2	6.5-6.9	4.9-5.1	3.2-3.4	2.7-2.9

NA = Sampling Time is not applicable to canister size W=Winter Setting

1L Canister: Set Flow Rates for Various Sampling Times (mL/min)

Time	5 min*	10 min*	20 min*	40 min*	1 hour*	2 hour*	4 hour*
Flow Rate	150-195	95-105	39.5-40.5	19.5-20.5	13.3-13.7	6.5-6.9	3.2-3.4
*6L equivalent	30 min	50 min	2 hour	4 hour	6 hour	12 hour	24 hour

Post Sampling Check Supporting Information:

Code	Date	Analyst	Temp (°C)	BP (Hg)	FM ID	Code	Date	Analyst	Temp (°C)	BP (Hg)	FM ID
1	7/31/19	TM	21	29.8	F8	5					
2						6					
3						7					
4						8					

Post-Sampling Air Canister Pressure Check Record

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst		
200-49613	07/13/19	12:42	29.8	21	G17	TM		
Sampling Information and Return Equipment Check				Yes	No	Comments		
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?				Yes				
(2) Is the flow controller ID used for each canister recorded?				Yes				
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers					No			
(4) Is visible sign of damage to canister and/or flow controller (FC) present?					No			
If damage observed, list equipment IDs and describe condition:								
Post-Sampling Return Pressure Check								
Lab ID	Canister ID	Pressure ¹ ("Hg)	Anomaly ² (Y/N)	FC ID ³	FC Check ⁴ Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-49613-A-1	4311	-6.3	N	3976	82/192	Y	6017-36569	
200-49613-A-2	4429	-7.6	N	6156	82/192	Y	6017-36569	
200-49613-A-3	5076	-6.0	N	4048	82/192	Y	6017-36569	
200-49613-A-4	3348	-12.5	Y	3300	82/192	Y	6017-36569	

¹ Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

² If return pressure is not within criteria, initiate Non-Conformance Memo.

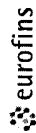
³ Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

⁴ Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded


Eurofins TestAmerica, Burlington
 30 Community Drive
 Suite 11
 South Burlington, VT 05403-6809
 phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.



Environment Testing
 TestAmerica

Client Contact Information		Client Project Manager: <u>Adrianna Beyer</u> Samples Collected By: <u>J. Mendenhall</u>		COC No: <u>1</u> of <u>1</u> COCs																		
Company Name: <u>ATRF, INC.</u>		Phone: <u>802.660.1919</u>		For Lab Use Only: Walk-in Client: Lab Sampling:																		
Address: <u>440 Park Ave S, 7th Fl</u>		Email: <u>ABSE@ATRF.COM</u>		Job / SDG No.:																		
City/State/Zip: <u>NY NY 10016</u>		Site Contact: <u>J. Mendenhall</u>		(See below for Add'l Items)																		
Phone: <u>646-2388-9576</u>		Tel/Fax: <u>914-552-7294</u>																				
Project Name: <u>521 E REMENT</u>		Standard (Specify): <u>5 Day</u>																				
Site/Location: <u>170 204</u>		Rush (Specify):																				
Sample Identification	Sample Start Date	Time Start	Sample End Date	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	EPA 30	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes section)	Sample Type	Indoor Air/Ambient Air	Sub Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	
<u>SV-02-20190710</u>	<u>7/10/19</u>	<u>1105</u>	<u>7/10/19</u>	<u>1305</u>	<u>-27.0</u>	<u>-5.0</u>	<u>3976</u>	<u>4311</u>	<u>X</u>													
<u>SV-01-20190710</u>	<u>7/10/19</u>	<u>1140</u>	<u>7/10/19</u>	<u>1340</u>	<u>-21.0</u>	<u>-6.0</u>	<u>6156</u>	<u>4429</u>	<u>X</u>													
<u>SV-04-20190710</u>	<u>7/10/19</u>	<u>1425</u>	<u>7/10/19</u>	<u>1625</u>	<u>-21.0</u>	<u>-5.0</u>	<u>4648</u>	<u>5076</u>	<u>X</u>													
<u>SV-03-20190712</u>	<u>7/12/19</u>	<u>1000</u>	<u>7/12/19</u>	<u>1210</u>	<u>-21.0</u>	<u>-7.0</u>	<u>3300</u>	<u>3348</u>	<u>X</u>													
<u>JM</u>																						
 200-49613 Chain of Custody																						
Temperature (Fahrenheit) Start Stop Interior Ambient Pressure (inches of Hg) Start Stop Interior Ambient																						
Special Instructions/QC Requirements & Comments: <u>CAT. A Deliverables</u>																						
Samples Shipped by: <u>Jacob Mendenhall</u>												Date/Time: <u>7/12/19 1900</u>										
Samples Relinquished by: <u>Jacob Mendenhall</u>												Date/Time: <u>7/12/19 1500</u>										
Relinquished by:												Date/Time:										
Lab Use Only:												Shipper Name:										
Opened by:												Condition:										
Samples Received by:												Date/Time:										
Received by: <u>Jacob Mendenhall</u>												Date/Time: <u>7/13/19 1005</u>										
Received by:												Date/Time:										



ORIGIN ID: AIVA (646) 745-0906
TESTAMERICA NYC
47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 12 JUL 19
ACT: WGT: 40.00 LB
CAD: 112977992/INET4100

BILL RECIPIENT

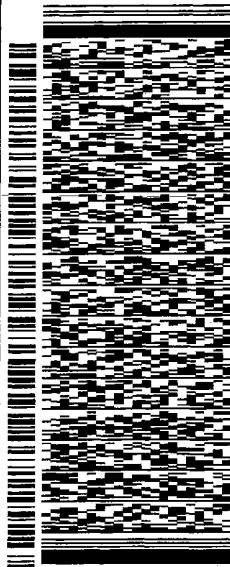
TO **SAMPLING RECEIVING BVT**
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403

REF: (802) 660-1990
INV:
PO:

DEPT:

565J2/A6F9/23AD



J1910190701m

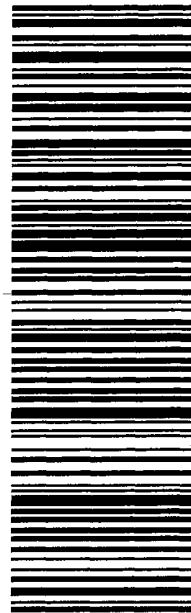
1 of 2

TRK# 7757 1842 2026
0201
MASTER

SATURDAY 12:00P
PRIORITY OVERNIGHT

05403
BTV
VT-US

X0 BTVA



After printing this label:
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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



ORIGIN ID: AIVA (646) 745-0906
TESTAMERICA NYC
47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 12 JUL 19
ACTWGT: 40.00 LB
CAD: 11297799Z/NET4100

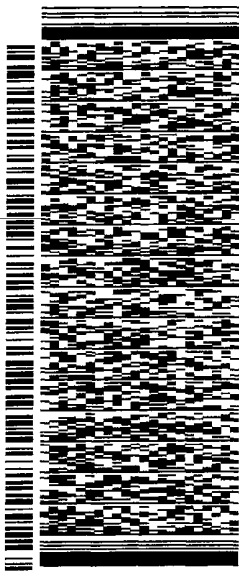
BILL RECIPIENT

TO **SAMPLING RECEIVING BVT**
TESTAMERICA
30 COMMUNITY DR STE 11

595J2/A6F9Z3AD

SOUTH BURLINGTON VT 05403
REF: (802) 860-1890
INV: P.O.

DEPT:



J191019010701m

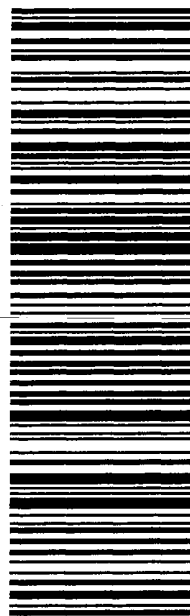
SATURDAY 12:00P
PRIORITY OVERNIGHT

2 of 2
MPS# **7757 1842 1968**
Mstr# **7757 1842 2026**

0201

05403
VT-US BTV

X0 BTVA



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Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 200-49613-1
SDG Number: 200-49613-1

Login Number: 49613
List Number: 1
Creator: Mohn, Taylor J

List Source: Eurofins TestAmerica, Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Pre-shipment Clean Canister Certification Report

Canister Cleaning & Pre-shipment Leak Test

System ID	Max DF#	# Cycles	Cleaning Start Date/Time	System Start Temp(s)	Technician	Can Size	Certification Type:			
Bottom Rack	50	25	6/13/2019 17:39	21	SCH	6 liter	batch			
Port	Can ID	Initial ¹ (psia)	Final (psia)	Diff. ³	Final ("Hg)	Initial Reading Date: Time:	Gauge:	Temp:	Tech:	Temp:
1	5076	.01	.11	.10	30.0	6/14/19 1432	G26	21	SCH	21
2	3534		.25	.24			G26			
3	5064		.01	.00			G26			
4	5049		.14	.13			G26			
5	3348		.01	.00			G26			
6	4445		.01	.00			G26			
7	5637		.01	.00			G26			
8	4311		.01	.00			G26			
9	4910		.01	.00			G26			
10	4429		.08	.07			G26			
11	4019		.04	.03			G26			
12	6017	.01	.03	.02	29.8	7/5/19 1135	G26	21	SCH	21

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

² Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization Date: _____

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method:	Inventory Level	Inventory Level	Inventory Level	Secondary Review
<input checked="" type="checkbox"/> TO15 Routine <input type="checkbox"/> TO15 LL	1	2	3	Review Date
Can ID	Analyst	XXXX	Limited	Reviewer
6017	RPI		4	7/2/19

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Dup Tees/Vac gauges (enter IDs if included):

Comments:

200-49203-A-12
6017
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 6/13/2019 5:39 PM 200-1292922

Loc: 200
49203
#12
A



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-49203-1
 SDG No.: _____
 Client Sample ID: 6017 Lab Sample ID: 200-49203-12
 Matrix: Air Lab File ID: 36569-17.D
 Analysis Method: TO-15 Date Collected: 06/13/2019 17:39
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/02/2019 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 144626 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-49203-1
 SDG No.: _____
 Client Sample ID: 6017 Lab Sample ID: 200-49203-12
 Matrix: Air Lab File ID: 36569-17.D
 Analysis Method: TO-15 Date Collected: 06/13/2019 17:39
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/02/2019 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 144626 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U *	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U *	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 200-49203-1
 SDG No.: _____
 Client Sample ID: 6017 Lab Sample ID: 200-49203-12
 Matrix: Air Lab File ID: 36569-17.D
 Analysis Method: TO-15 Date Collected: 06/13/2019 17:39
 Sample wt/vol: 1000 (mL) Date Analyzed: 07/02/2019 00:05
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 144626 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Lims ID: 200-49203-A-12
 Client ID: 6017
 Sample Type: Client
 Inject. Date: 02-Jul-2019 00:05:30 ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0036569-017
 Misc. Info.: 49203-12
 Operator ID: vtp Instrument ID: CHX.i
 Method: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\TO15_MasterMethod_X.m.m
 Limit Group: AI_TO15_ICAL
 Last Update: 02-Jul-2019 13:21:03 Calib Date: 19-Jun-2019 12:16:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromna\Burlington\ChromData\CHX.i\20190618-36399.b\36399-22.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: CTX0301

First Level Reviewer: puangmaleek

Date: 02-Jul-2019 13:21:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		4.078				ND	
2 Dichlorodifluoromethane	85		4.169				ND	
3 Chlorodifluoromethane	51		4.233				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		4.500				ND	
5 Chloromethane	50		4.688				ND	U
6 Butane	43		4.918				ND	U
7 Vinyl chloride	62		4.971				ND	
8 Butadiene	54		5.057				ND	U
10 Bromomethane	94		5.854				ND	
11 Chloroethane	64		6.100				ND	
13 Vinyl bromide	106		6.522				ND	
14 Trichlorofluoromethane	101		6.619				ND	
17 Ethanol	45	7.218	7.218	0.011	89	1517	0.2027	M
20 1,1,2-Trichloro-1,2,2-trif	101		7.705				ND	
21 1,1-Dichloroethene	96		7.769				ND	
22 Acetone	43		8.015				ND	U
23 Carbon disulfide	76	8.197	8.188	0.005	39	1680	0.0168	
24 Isopropyl alcohol	45		8.283				ND	
25 3-Chloro-1-propene	41		8.571				ND	
27 Methylene Chloride	49		8.876				ND	U
28 2-Methyl-2-propanol	59		9.074				ND	
29 Methyl tert-butyl ether	73		9.272				ND	
31 trans-1,2-Dichloroethene	61		9.320				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
33 Hexane	57		9.700				ND	
34 1,1-Dichloroethane	63		10.224				ND	
35 Vinyl acetate	43		10.278				ND	
37 cis-1,2-Dichloroethene	96		11.343				ND	
38 2-Butanone (MEK)	72		11.380				ND	
39 Ethyl acetate	88		11.401				ND	
* 40 Chlorobromomethane	128	11.814	11.808	0.006	79	256380	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		11.808				ND	
42 Chloroform	83		11.920				ND	
43 Cyclohexane	84		12.166				ND	
44 1,1,1-Trichloroethane	97		12.193				ND	
45 Carbon tetrachloride	117		12.434				ND	
46 Isooctane	57		12.819				ND	
47 Benzene	78		12.878				ND	
48 1,2-Dichloroethane	62		13.054				ND	
49 n-Heptane	43		13.172				ND	
* 50 1,4-Difluorobenzene	114	13.649	13.643	0.005	93	1134828	10.0	
53 Trichloroethene	95		14.082				ND	
54 1,2-Dichloropropane	63		14.590				ND	
55 Methyl methacrylate	69		14.708				ND	
56 1,4-Dioxane	88		14.782				ND	
57 Dibromomethane	174		14.831				ND	
58 Dichlorobromomethane	83		15.087				ND	
60 cis-1,3-Dichloropropene	75		15.938				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.189				ND	
65 Toluene	92		16.489				ND	
66 trans-1,3-Dichloropropene	75		17.045				ND	
67 1,1,2-Trichloroethane	83		17.404				ND	
68 Tetrachloroethene	166		17.505				ND	
69 2-Hexanone	43		17.805				ND	
71 Chlorodibromomethane	129		18.131				ND	
72 Ethylene Dibromide	107		18.399				ND	
* 74 Chlorobenzene-d5	117	19.260	19.255	0.005	84	953480	10.0	
75 Chlorobenzene	112		19.308				ND	
76 Ethylbenzene	91		19.442				ND	U
S 73 Xylenes, Total	106		19.600				ND	
78 m-Xylene & p-Xylene	106		19.683				ND	
79 o-Xylene	106		20.491				ND	
80 Styrene	104		20.539				ND	
81 Bromoform	173		20.945				ND	
82 Isopropylbenzene	105		21.122				ND	
84 1,1,1,2-Tetrachloroethane	83		21.748				ND	
85 N-Propylbenzene	91		21.807				ND	
88 4-Ethyltoluene	105		21.988				ND	
89 2-Chlorotoluene	91		22.005				ND	
90 1,3,5-Trimethylbenzene	105		22.090				ND	
92 tert-Butylbenzene	119		22.561				ND	
93 1,2,4-Trimethylbenzene	105		22.652				ND	
94 sec-Butylbenzene	105		22.877				ND	
95 4-Isopropyltoluene	119		23.069				ND	
96 1,3-Dichlorobenzene	146		23.112				ND	U
97 1,4-Dichlorobenzene	146		23.246				ND	U
98 Benzyl chloride	91		23.444				ND	
100 n-Butylbenzene	91		23.642				ND	
101 1,2-Dichlorobenzene	146		23.786				ND	U
103 1,2,4-Trichlorobenzene	180		26.327				ND	
104 Hexachlorobutadiene	225		26.509				ND	
105 Naphthalene	128		26.825				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15XISs_00002

Amount Added: 20.00

Units: mL

Run Reagent

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Euofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D

Injection Date: 02-Jul-2019 00:05:30

Instrument ID: CHX.i

Operator ID: vtp

Lims ID: 200-49203-A-12

Lab Sample ID: 200-49203-12

Worklist Smp#: 17

Client ID: 6017

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

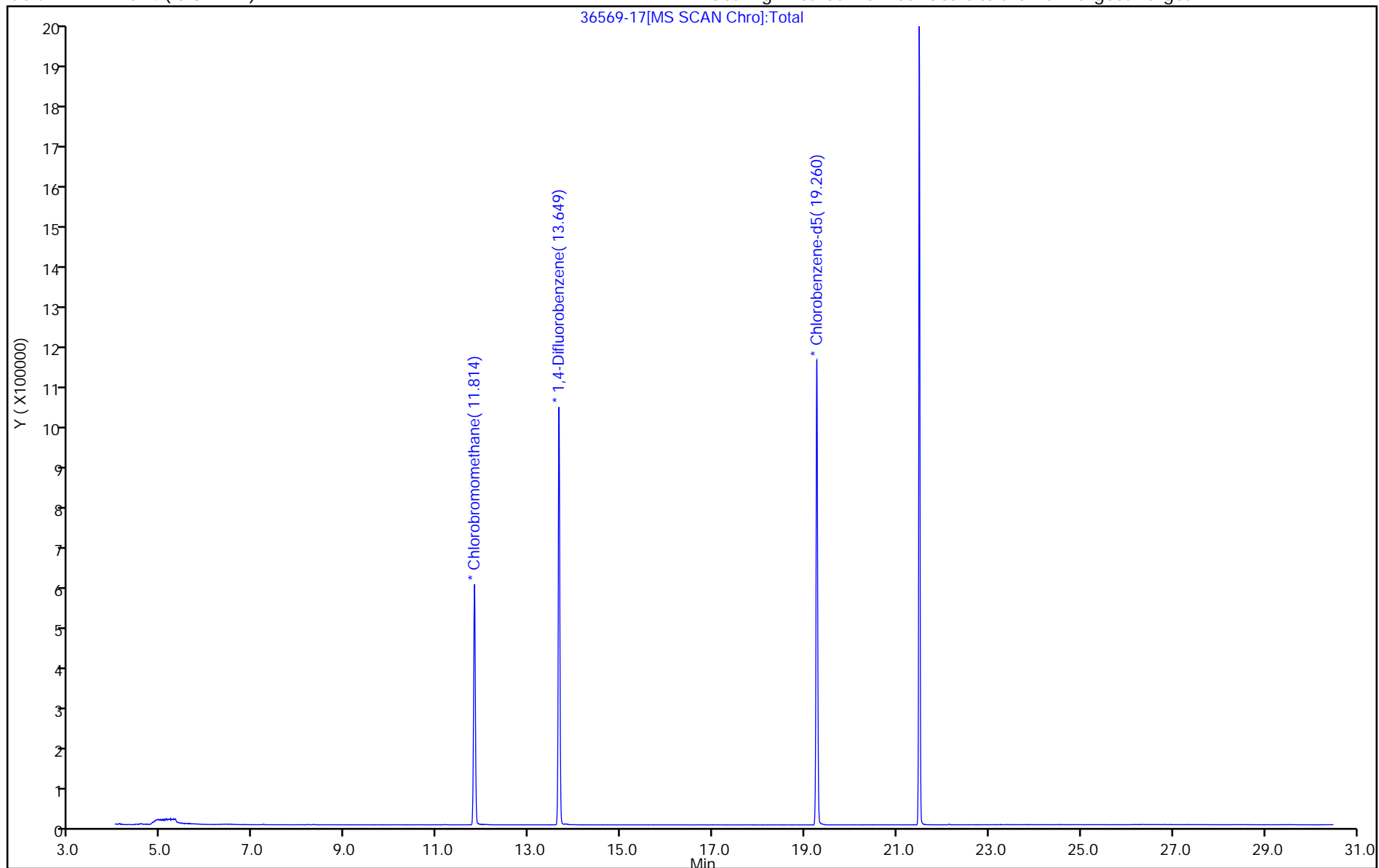
ALS Bottle#: 17

Method: TO15_MasterMethod_X.m

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

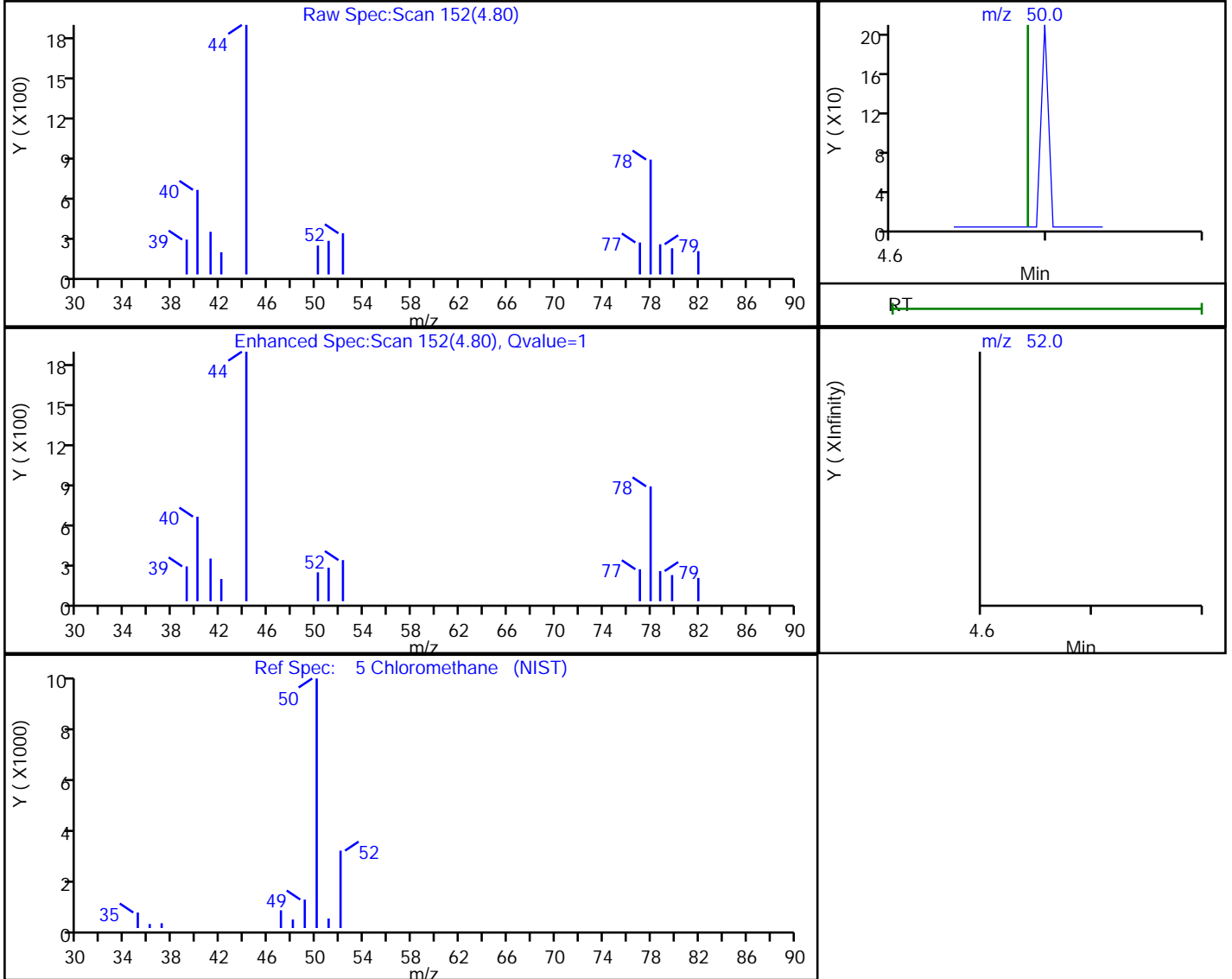


Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
4.80	50.00	120	0.003968
4.80	52.00	374	

Reviewer: puangmaleek, 02-Jul-2019 13:19:15

Audit Action: Marked Compound Undetected

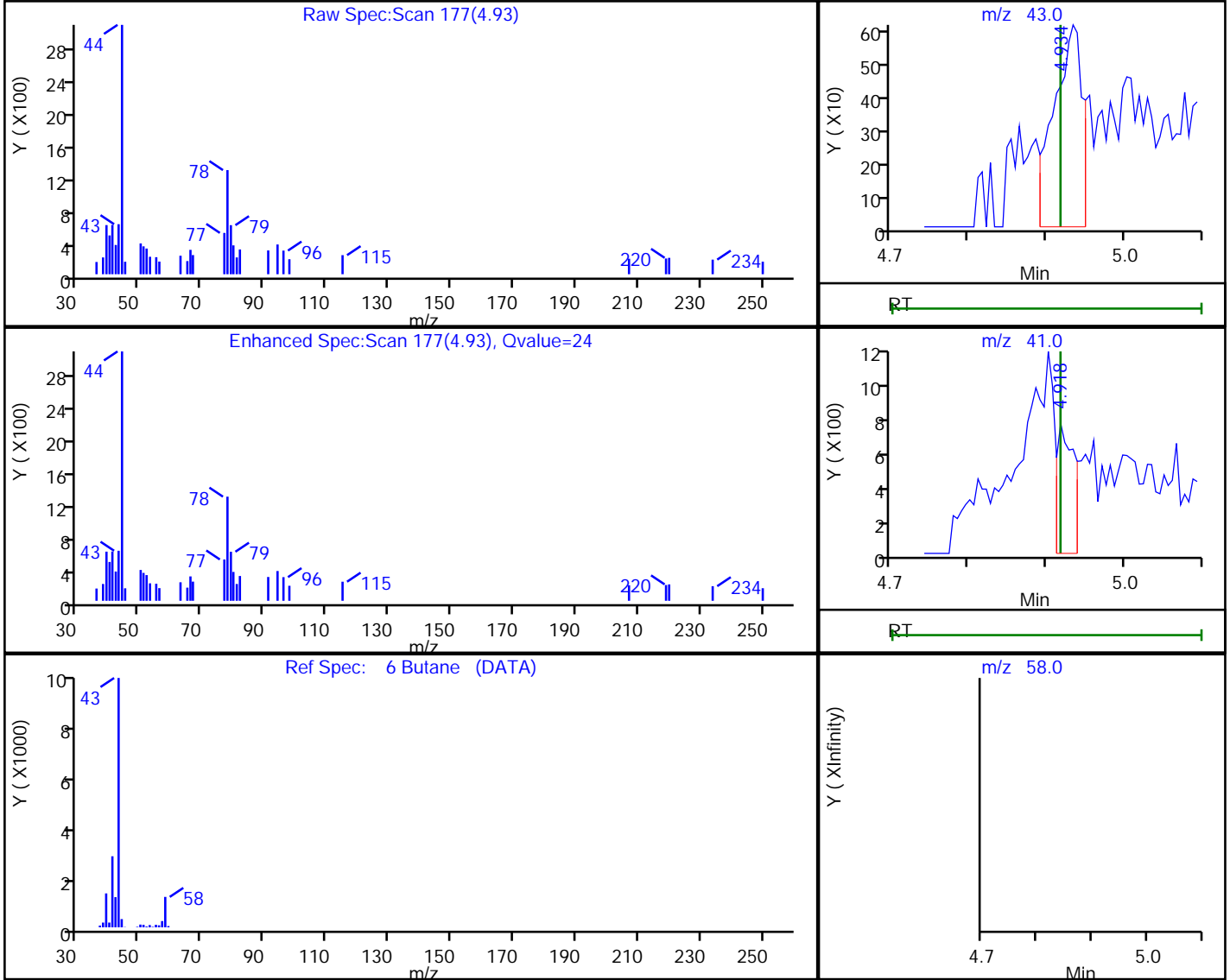
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
4.93	43.00	1587	0.047973
4.92	41.00	1185	
4.92	58.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:19:19

Audit Action: Marked Compound Undetected

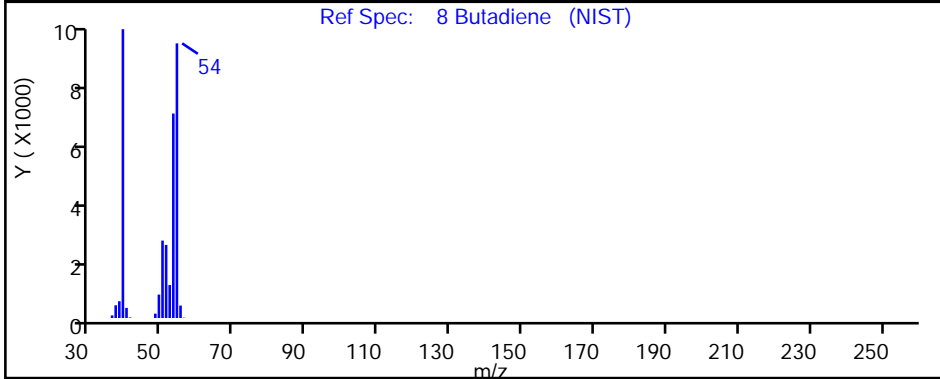
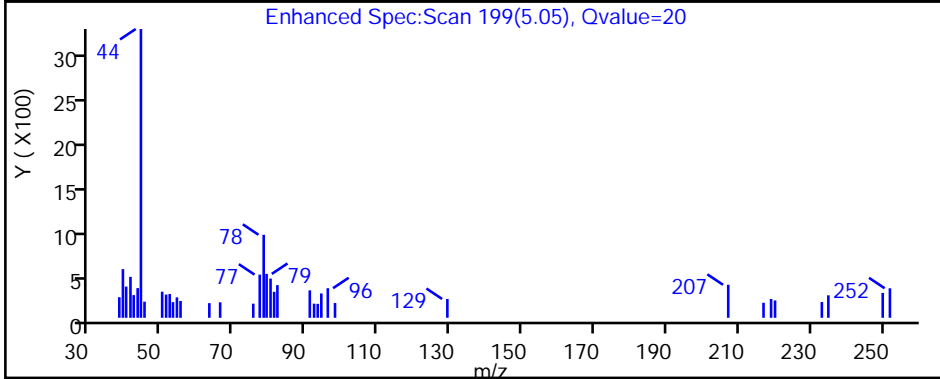
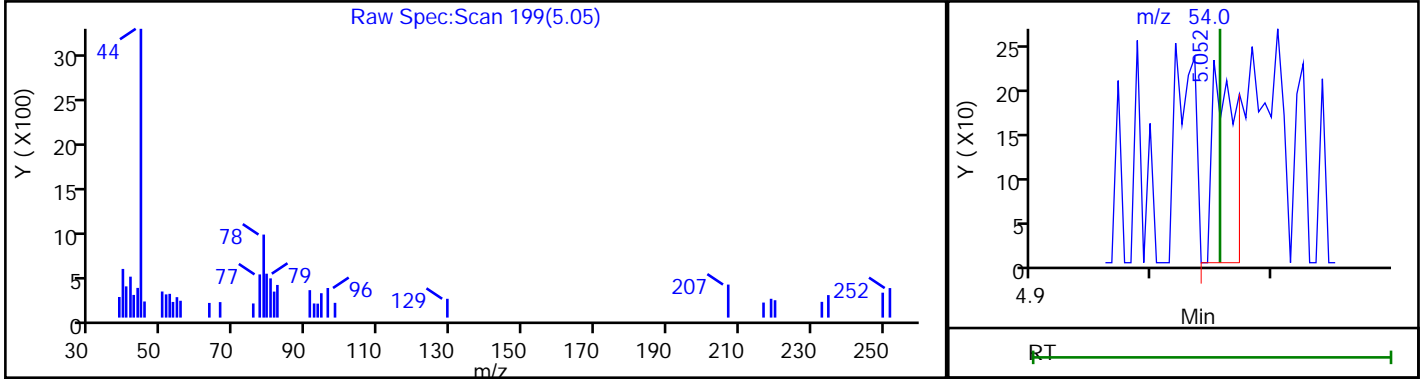
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

8 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
5.05	54.00	300	0.015525

Reviewer: puangmaleek, 02-Jul-2019 13:19:21

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



Eurofins TestAmerica, Burlington

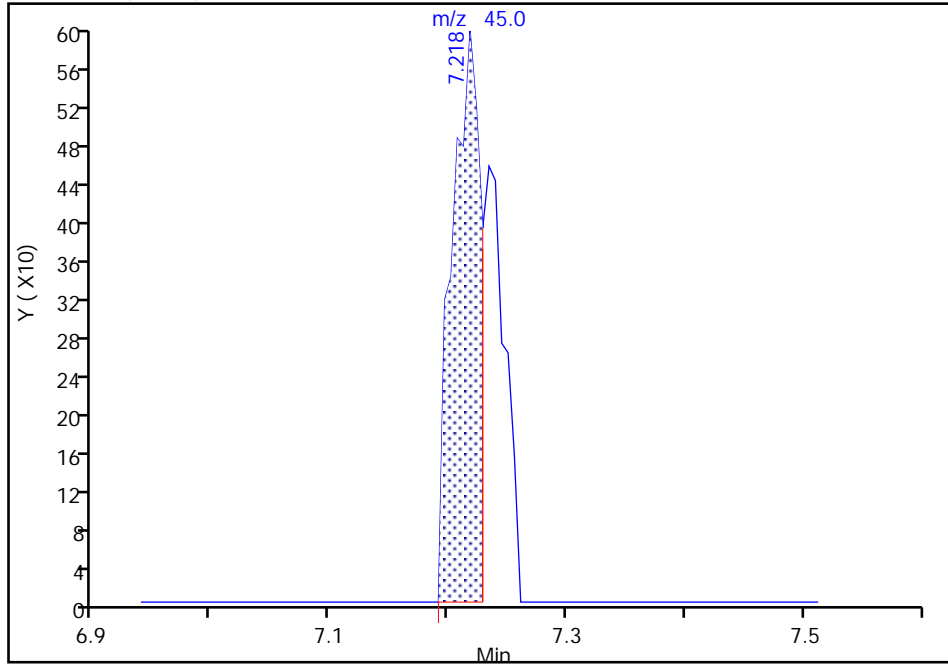
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Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
Client ID: 6017
Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

17 Ethanol, CAS: 64-17-5

Signal: 1

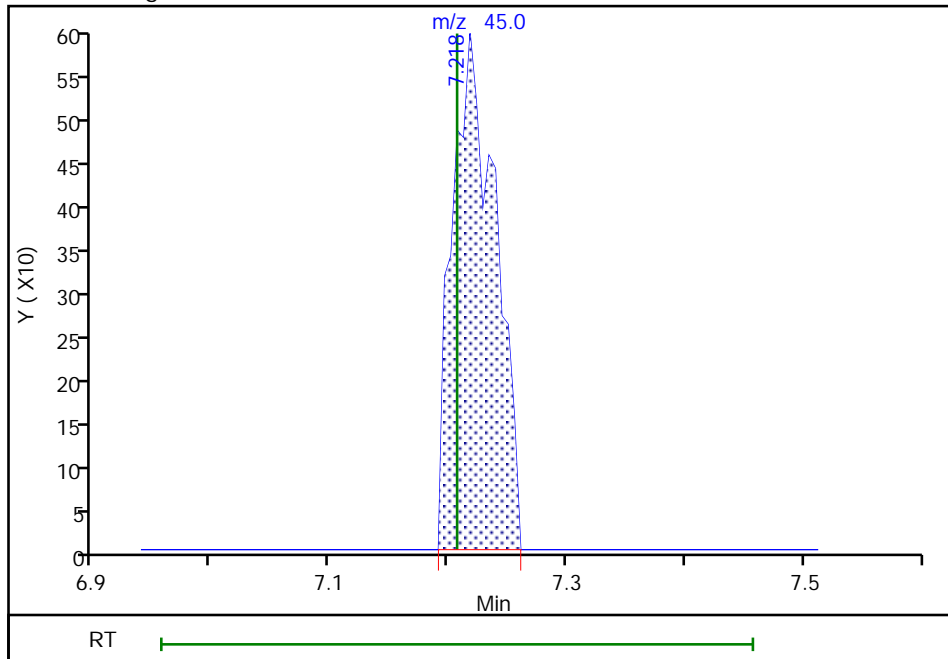
RT: 7.22
Area: 1007
Amount: 0.134535
Amount Units: ppb v/v

Processing Integration Results



RT: 7.22
Area: 1517
Amount: 0.202671
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 02-Jul-2019 13:19:36

Audit Action: Manually Integrated

Audit Reason: Assign Peak

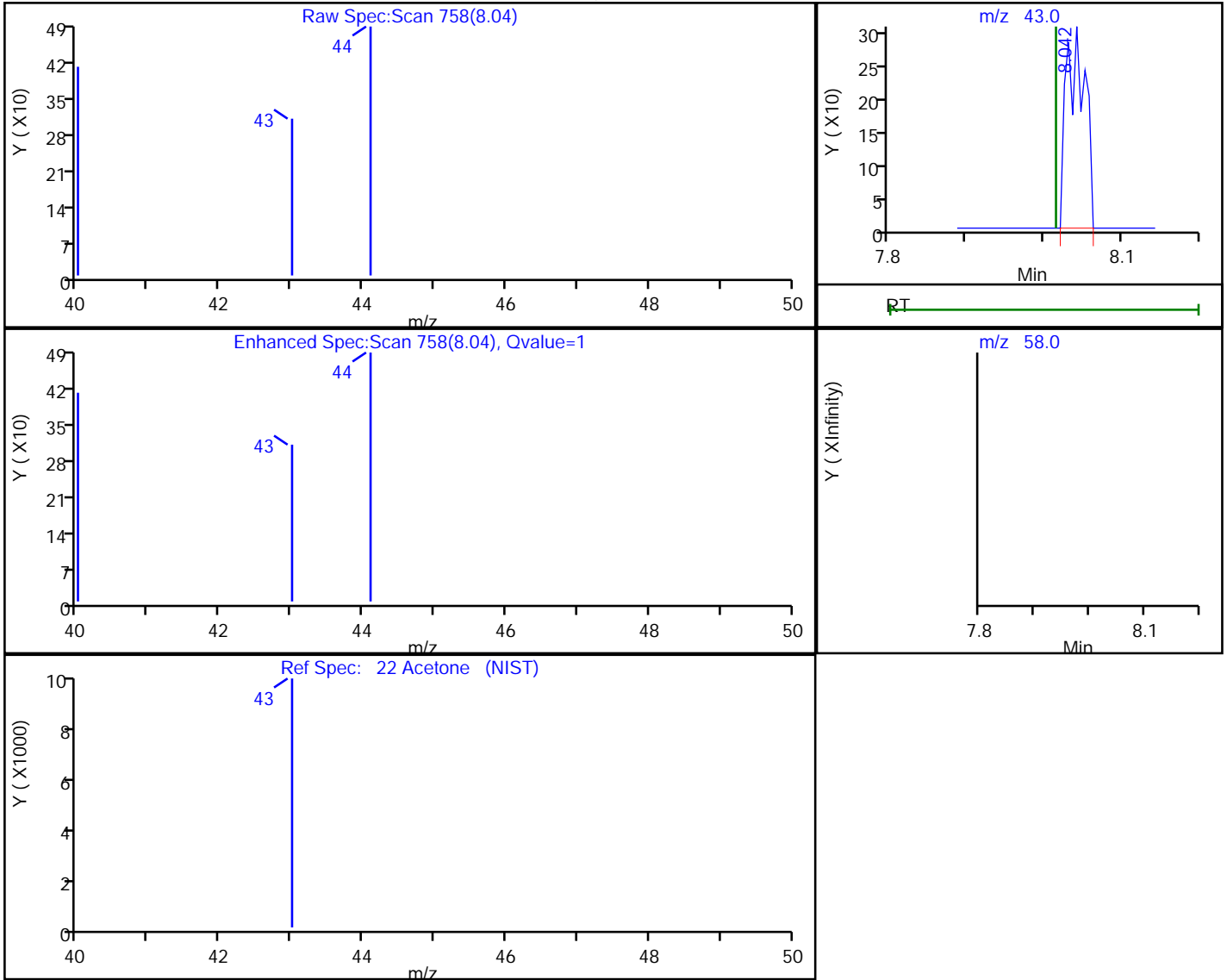


Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

22 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
8.04	43.00	516	0.012460
8.02	58.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:19:44

Audit Action: Marked Compound Undetected

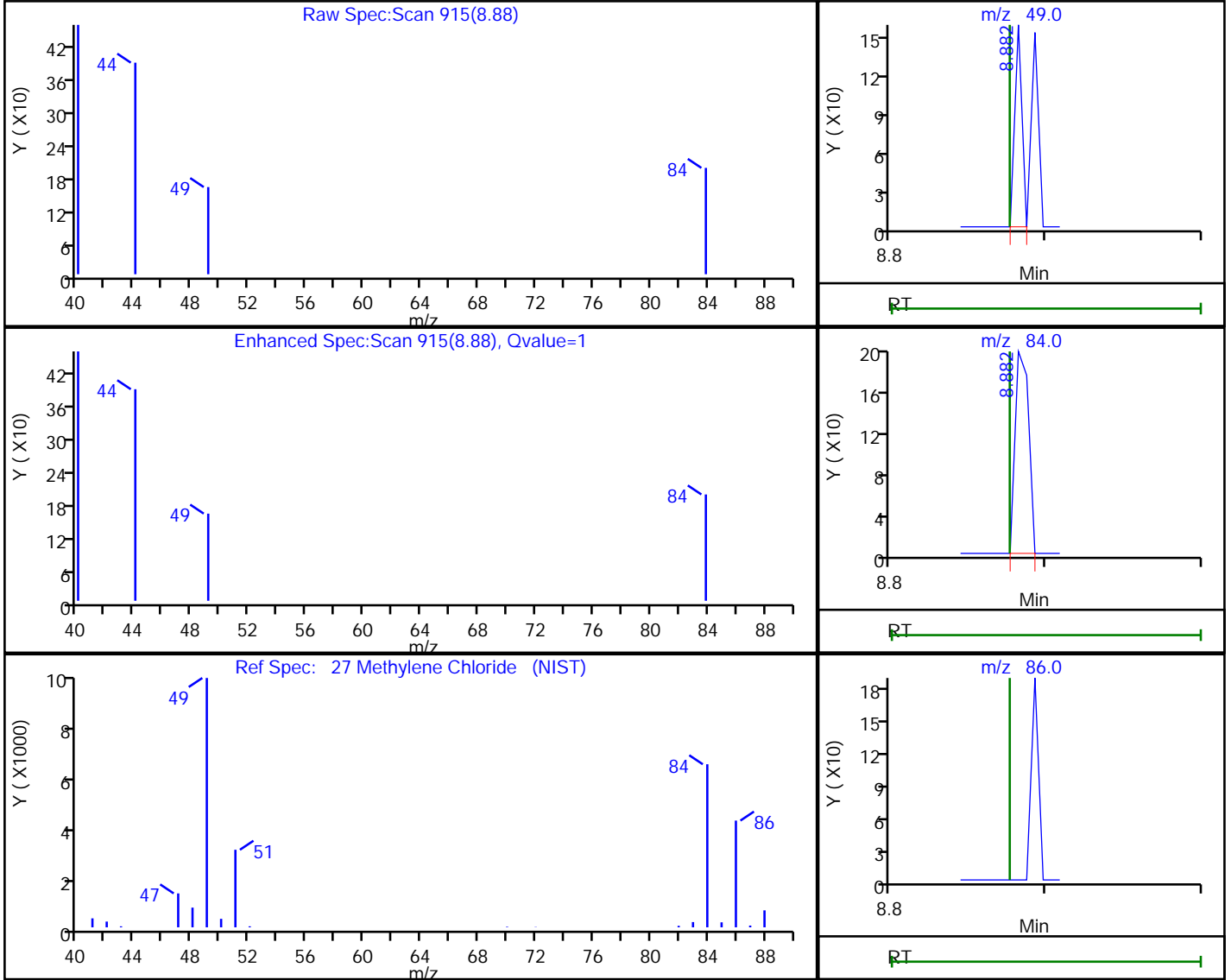
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
Client ID: 6017
Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm) Detector: MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
8.88	49.00	51	0.001428
8.88	84.00	117	
8.88	86.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:19:51

Audit Action: Marked Compound Undetected

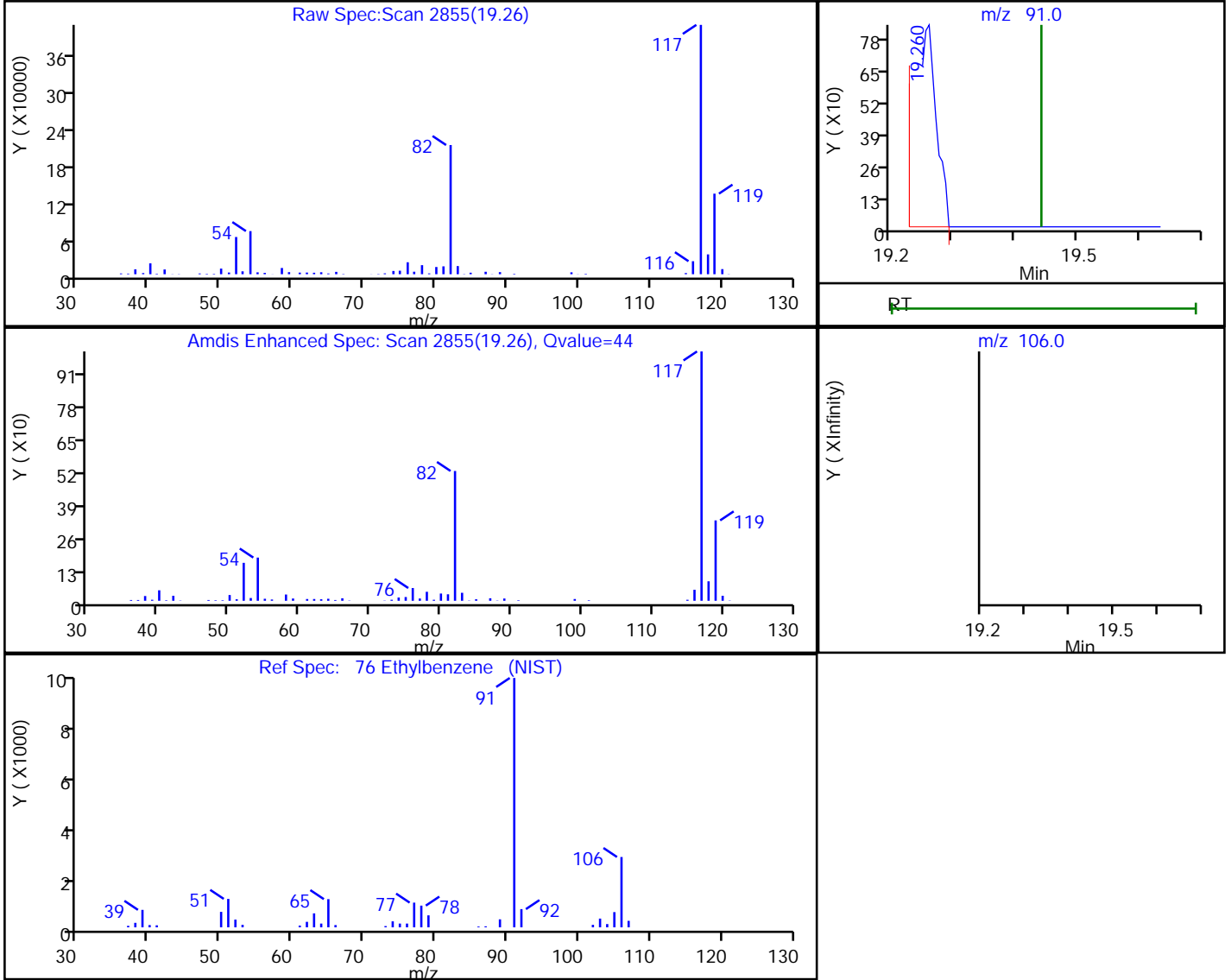
Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.26	91.00	1772	0.010637
19.44	106.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:20:39

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

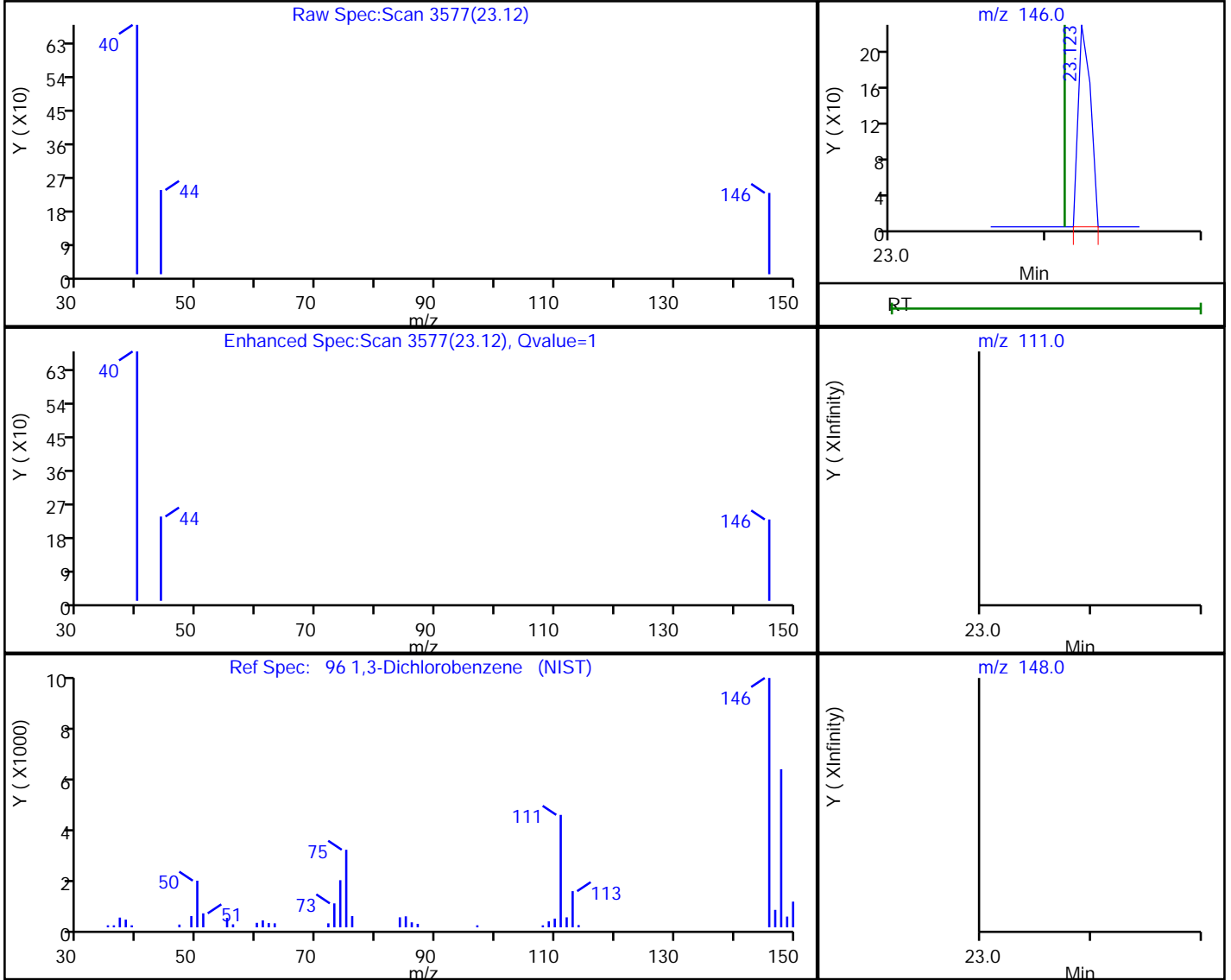


Eurofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

96 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
23.12	146.00	122	0.000815
23.11	111.00	0	
23.11	148.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:20:50

Audit Action: Marked Compound Undetected

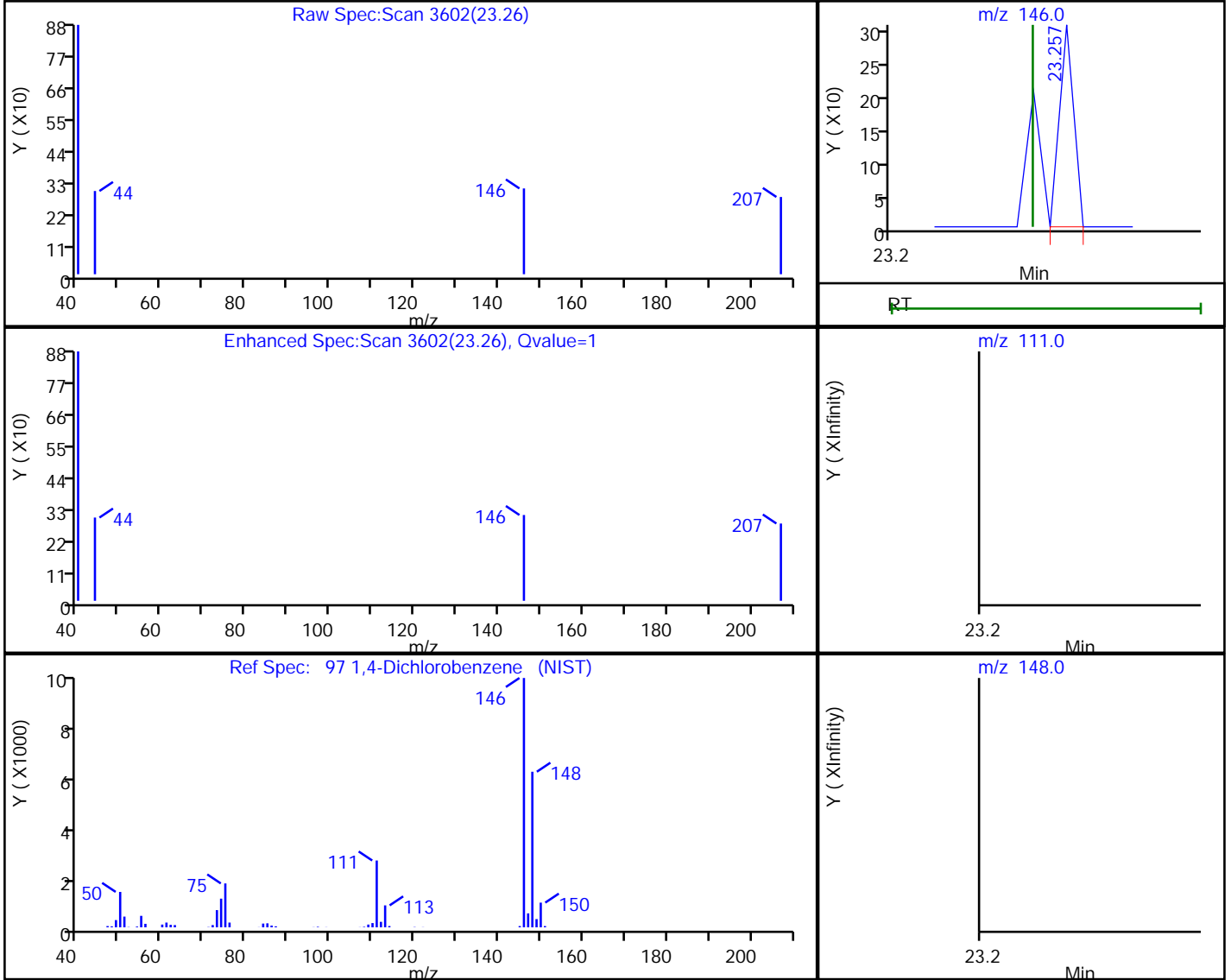
Audit Reason: Invalid Compound ID

Euofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

97 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
23.26	146.00	97	0.000688
23.25	111.00	0	
23.25	148.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:20:52

Audit Action: Marked Compound Undetected

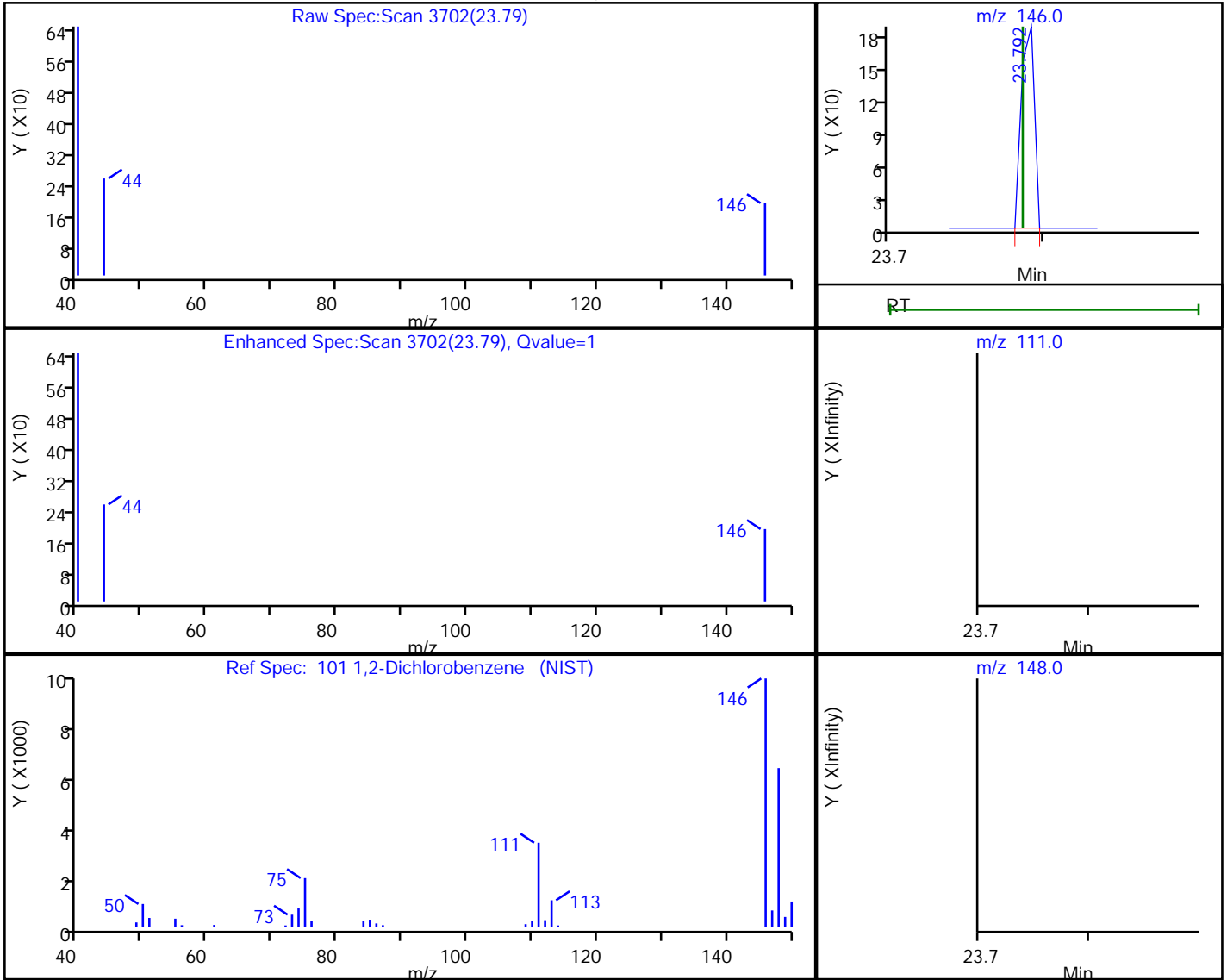
Audit Reason: Invalid Compound ID

Euofins TestAmerica, Burlington

Data File: \\chromna\Burlington\ChromData\CHX.i\20190701-36569.b\36569-17.D
 Injection Date: 02-Jul-2019 00:05:30 Instrument ID: CHX.i
 Lims ID: 200-49203-A-12 Lab Sample ID: 200-49203-12
 Client ID: 6017
 Operator ID: vtp ALS Bottle#: 17 Worklist Smp#: 17
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
23.79	146.00	111	0.000764
23.79	111.00	0	
23.79	148.00	0	

Reviewer: puangmaleek, 02-Jul-2019 13:20:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-186281-1
Client Project/Site: 521 East Tremont Avenue #190204

For:
AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco



Authorized for release by:
7/19/2019 9:24:41 AM
Thomas Chupela, Project Management Assistant I
thomas.chupela@testamericainc.com

Designee for
Allison Bennett, Project Manager I
(732)593-2517
allison.bennett@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Thomas Chupela
Project Management Assistant I
7/19/2019 9:24:41 AM

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Definitions/Glossary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
*	Surrogate is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*	Surrogate is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
*	Duplicate analysis not within control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
N	Spiked sample recovery is not within control limits.
U	Indicates analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

Definitions/Glossary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Job ID: 460-186281-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: 521 East Tremont Avenue #190204

Report Number: 460-186281-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/10/2019 6:30 PM and 7/12/2019 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 2.7° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260C. The samples were prepared on 07/11/2019 and 07/13/2019 and analyzed on 07/12/2019, 07/15/2019 and 07/18/2019.

The continuing calibration verification (CCV) analyzed in batch 460-624018 was outside the method criteria for the following analyte: Dichlorodifluoromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-624018 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane and Methyl tert-butyl ether. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Several analytes failed the recovery criteria low for the MS of sample 460-186298-6 in batch 460-624018.

Several analytes failed the recovery criteria low for the MSD of sample 460-186298-6 in batch 460-624018.

Refer to the QC report for details.

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Laboratory: Eurofins TestAmerica, Edison (Continued)

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 07/11/2019 and 07/15/2019 and analyzed on 07/12/2019 and 07/16/2019.

Surrogate DCB Decachlorobiphenyl recovery for the following samples were outside control limits: SB-02_0-2_20190710 (460-186281-3) and SB-05_0-2_20190710 (460-186281-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the confirmation column due to matrix interference: SB-01_0-2_20190710 (460-186281-1), SB-02_10-12_20190710 (460-186281-4) and SB-04_0-2_20190710 (460-186281-7). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

The %RPD between the primary and confirmation columns exceeded 40% for cis-Chlordane for the following sample: SB-01_0-2_20190710 (460-186281-1). The lower value has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation columns exceeded 40% for Dieldrin and trans-Chlordane for the following sample: SB-04_0-2_20190710 (460-186281-7). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

The continuing calibration verification (CCV) associated with batch 460-624948 recovered above the upper control limit for Endrin on the primary column. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD and trans-Chlordane for the following sample: SB-06_0-2_20190712 (460-186524-2). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD, 4,4'-DDE, trans-Chlordane and 4,4'-DDT for the following sample: SB-06_5-7_20190712 (460-186524-3). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

The DCB Decachlorobiphenyl surrogate recovery for the following samples was outside acceptance limits (high biased) on the primary column due to matrix interference: SB-06_5-7_20190712 (460-186524-3). The recovery is within acceptance limits on the other column, indicating that the extraction process was in control.

4,4'-DDD and Endrin ketone failed the recovery criteria high for the MSD of sample SB-05_10-12_20190710MSD (460-186281-6) in batch 460-624043.

Several analytes failed the recovery criteria high for the MS of sample 460-186525-5 in batch 460-624948.

4,4'-DDT and Endrin failed the recovery criteria high for the MSD of sample 460-186525-5 in batch 460-624948.

Refer to the QC report for details.

No other difficulties were encountered during the Pesticides analysis.

All other quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS

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Laboratory: Eurofins TestAmerica, Edison (Continued)

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for polychlorinated biphenyls in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/11/2019 and 07/15/2019 and analyzed on 07/12/2019 and 07/16/2019.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/11/2019 and 07/13/2019 and analyzed on 07/12/2019, 07/14/2019 and 07/15/2019.

The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 460-623796 and analytical batch 460-623961 recovered outside control limits for the following analyte(s): Atrazine. These analytes have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The laboratory control sample (LCS) for preparation batch 460-623796 and analytical batch 460-623961 recovered outside control limits for the following analytes: Benzaldehyde and Caprolactam. These analytes were biased high in the LCS; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in 460-624425 was outside the method criteria for the following analyte(s): Caprolactam and Benzaldehyde. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-624425 was outside the method criteria for the following analyte(s): 2-Nitroaniline, 4-Nitrophenol, Bis(2-chloroethyl)ether, Phenol, N-Nitrosodi-n-propylamine and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in batch 460-624506 was outside the method criteria for the following analyte(s): 2,2'-oxybis[1-chloropropane] and Hexachlorocyclopentadiene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits due to poor performance. The LCS associated with batch 460-624336 had (Hexachlorocyclopentadiene) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB-06_0-2_20190712 (460-186524-2). These results have been reported and qualified.

Surrogate recovery for the following sample was outside control limits: SB-06_5-7_20190712 (460-186524-3). Re-extraction and/or re-analysis was performed with concurring results. The analysis has been reported.

2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol and Atrazine failed the recovery criteria low for the MS of sample 460-186306-4 in batch

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460-623961.

2,4-Dinitrophenol and Atrazine failed the recovery criteria low for the MSD of sample 460-186306-4 in batch 460-623961.

Several analytes failed the recovery criteria low for the MS of sample 460-186522-1 in batch 460-624425.

Several analytes failed the recovery criteria low for the MSD of sample 460-186522-1 in batch 460-624425.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

TOTAL METALS (ICP/MS)

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for Total Metals (ICP/MS) in accordance with EPA SW-846 Method 6020B. The samples were prepared and analyzed on 07/11/2019 and 07/15/2019.

Antimony failed the recovery criteria low for the MS of sample 460-186213-1 in batch 460-623857. Aluminum, Iron and Manganese failed the recovery criteria high.

Several analytes failed the recovery criteria low for the MS of sample 460-186306-4 in batch 460-624141.

Antimony, Barium, Lead and Zinc failed the recovery criteria low for the MS of sample 460-186525-5 in batch 460-624641. Aluminum, Calcium, Iron and Magnesium failed the recovery criteria high.

Zinc exceeded the RPD limit for the duplicate of sample 460-186213-1. for the duplicate of sample 460-186306-4. Barium, Beryllium and Zinc exceeded the RPD limit for the duplicate of sample 460-186525-5.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the metals analysis.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared and analyzed on 07/15/2019 and 07/17/2019.

No difficulties were encountered during the hexchrome Cr6 analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3),

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Job ID: 460-186281-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for total mercury in accordance with EPA SW-846 Method 7471B. The samples were prepared and analyzed on 07/11/2019, 07/12/2019 and 07/16/2019.

Mercury failed the recovery criteria high for the MS of sample 460-186095-13 in batch 460-624135.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample SB-06_0-2_20190712 (460-186524-2)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Hg analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples SB-01_0-2_20190710 (460-186281-1), SB-03_0-2_20190712 (460-186524-1), SB-01_10-12_20190710 (460-186281-2), SB-06_0-2_20190712 (460-186524-2), SB-02_0-2_20190710 (460-186281-3), SB-06_5-7_20190712 (460-186524-3), SB-02_10-12_20190710 (460-186281-4), SB-05_0-2_20190710 (460-186281-5), SB-05_10-12_20190710 (460-186281-6), SB-04_0-2_20190710 (460-186281-7) and SB-04_3-5_20190710 (460-186281-8) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 07/14/2019 and 07/16/2019.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.54	J	1.2	0.54	mg/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.51	J	1.2	0.17	mg/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	0.022	J	0.38	0.0047	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.040	J	0.38	0.028	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.23	J	0.38	0.0039	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.30	J	0.38	0.0042	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.5		0.038	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.1		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3.0		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.2		0.38	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.1		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.68		0.38	0.020	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.037	J	0.38	0.018	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.14	J	0.38	0.0044	mg/Kg	1	☼	8270D	Total/NA
Chrysene	2.5		0.38	0.0064	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.44		0.038	0.016	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.034	J	0.38	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	3.4		0.38	0.0049	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.061	J	0.38	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.4		0.038	0.015	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.067	J	0.38	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.3		0.38	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	4.1		0.38	0.0094	mg/Kg	1	☼	8270D	Total/NA
4,4'-DDD	0.018		0.0076	0.0013	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDE	0.052		0.0076	0.00090	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.14		0.0076	0.0014	mg/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.)	0.18		0.076	0.018	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.028	p	0.0076	0.0012	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.019		0.0023	0.00099	mg/Kg	1	☼	8081B	Total/NA
trans-Chlordane	0.029		0.0076	0.0013	mg/Kg	1	☼	8081B	Total/NA
Aluminum	14700		21.5	7.4	mg/Kg	20	☼	6020B	Total/NA
Arsenic	2.2		1.1	0.35	mg/Kg	20	☼	6020B	Total/NA
Barium	79.1		2.2	0.71	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.70		0.43	0.17	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.75	J	1.1	0.36	mg/Kg	20	☼	6020B	Total/NA
Calcium	53300		108	32.0	mg/Kg	20	☼	6020B	Total/NA
Chromium	23.4		2.2	0.65	mg/Kg	20	☼	6020B	Total/NA
Cobalt	14.1		2.2	0.65	mg/Kg	20	☼	6020B	Total/NA
Copper	14.5		2.2	0.62	mg/Kg	20	☼	6020B	Total/NA
Iron	23100		64.6	22.6	mg/Kg	20	☼	6020B	Total/NA
Lead	12.2		0.65	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	23300		108	29.9	mg/Kg	20	☼	6020B	Total/NA
Manganese	1790		4.3	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	14.4		2.2	0.70	mg/Kg	20	☼	6020B	Total/NA
Potassium	1420		108	38.7	mg/Kg	20	☼	6020B	Total/NA
Sodium	184		108	33.7	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.86		0.43	0.13	mg/Kg	20	☼	6020B	Total/NA
Vanadium	27.3		2.2	0.61	mg/Kg	20	☼	6020B	Total/NA
Zinc	47.8		8.6	4.2	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.20		0.018	0.010	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.96	J	1.2	0.54	mg/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	0.088		0.037	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.067		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.088		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.045	J	0.37	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.035	J	0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.055	J	0.37	0.020	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.014	J	0.37	0.0044	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.092	J	0.37	0.0063	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.17	J	0.37	0.0049	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.37	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.037	0.015	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.16	J	0.37	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.19	J	0.37	0.0093	mg/Kg	1	☼	8270D	Total/NA
Aluminum	6870		20.8	7.1	mg/Kg	20	☼	6020B	Total/NA
Arsenic	4.0		1.0	0.33	mg/Kg	20	☼	6020B	Total/NA
Barium	1410		2.1	0.69	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.30	J	0.42	0.17	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.64	J	1.0	0.35	mg/Kg	20	☼	6020B	Total/NA
Calcium	38800		104	30.9	mg/Kg	20	☼	6020B	Total/NA
Chromium	12.9		2.1	0.62	mg/Kg	20	☼	6020B	Total/NA
Cobalt	4.4		2.1	0.63	mg/Kg	20	☼	6020B	Total/NA
Copper	18.8		2.1	0.60	mg/Kg	20	☼	6020B	Total/NA
Iron	9590		62.3	21.8	mg/Kg	20	☼	6020B	Total/NA
Lead	214		0.62	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	3860		104	28.9	mg/Kg	20	☼	6020B	Total/NA
Manganese	171		4.2	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	9.9		2.1	0.68	mg/Kg	20	☼	6020B	Total/NA
Potassium	1170		104	37.4	mg/Kg	20	☼	6020B	Total/NA
Sodium	652		104	32.5	mg/Kg	20	☼	6020B	Total/NA
Vanadium	21.3		2.1	0.59	mg/Kg	20	☼	6020B	Total/NA
Zinc	714		8.3	4.1	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.049		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.34	J	1.3	0.19	mg/Kg	1	☼	8260C	Total/NA
1,1'-Biphenyl	0.036	J	0.37	0.0050	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.084	J	0.37	0.0047	mg/Kg	1	☼	8270D	Total/NA
4-Methylphenol	0.015	J	0.37	0.0064	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.056	J	0.37	0.027	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.36	J	0.37	0.0039	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.40		0.37	0.0042	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.2		0.037	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.1		0.037	0.0099	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3.2		0.037	0.0097	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.5		0.37	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.3		0.037	0.0073	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.13	J	0.37	0.020	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.50		0.37	0.0044	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_0-2_20190710 (Continued)

Lab Sample ID: 460-186281-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	2.6		0.37	0.0063	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.41		0.037	0.016	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.35	J	0.37	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	5.2		0.37	0.0048	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.20	J	0.37	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	1.7		0.037	0.015	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.14	J	0.37	0.0065	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	5.5		0.37	0.0066	mg/Kg	1	☼	8270D	Total/NA
Pyrene	5.1		0.37	0.0093	mg/Kg	1	☼	8270D	Total/NA
4,4'-DDT	0.23		0.0076	0.0014	mg/Kg	1	☼	8081B	Total/NA
Aluminum	6870		22.6	7.7	mg/Kg	20	☼	6020B	Total/NA
Arsenic	4.8		1.1	0.36	mg/Kg	20	☼	6020B	Total/NA
Barium	784		2.3	0.75	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.20	J	0.45	0.18	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.60	J	1.1	0.38	mg/Kg	20	☼	6020B	Total/NA
Calcium	48200		113	33.6	mg/Kg	20	☼	6020B	Total/NA
Chromium	15.5		2.3	0.68	mg/Kg	20	☼	6020B	Total/NA
Cobalt	4.6		2.3	0.68	mg/Kg	20	☼	6020B	Total/NA
Copper	144		2.3	0.65	mg/Kg	20	☼	6020B	Total/NA
Iron	9520		67.8	23.7	mg/Kg	20	☼	6020B	Total/NA
Lead	172		0.68	0.21	mg/Kg	20	☼	6020B	Total/NA
Magnesium	5480		113	31.4	mg/Kg	20	☼	6020B	Total/NA
Manganese	184		4.5	1.4	mg/Kg	20	☼	6020B	Total/NA
Nickel	10		2.3	0.74	mg/Kg	20	☼	6020B	Total/NA
Potassium	1310		113	40.7	mg/Kg	20	☼	6020B	Total/NA
Sodium	664		113	35.4	mg/Kg	20	☼	6020B	Total/NA
Vanadium	21.4		2.3	0.64	mg/Kg	20	☼	6020B	Total/NA
Zinc	499		9.0	4.4	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.19		0.018	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	33		7.1	6.8	mg/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	2.5		1.2	0.18	mg/Kg	1	☼	8260C	Total/NA
Aluminum	13000		22.9	7.8	mg/Kg	20	☼	6020B	Total/NA
Arsenic	4.0		1.1	0.37	mg/Kg	20	☼	6020B	Total/NA
Barium	65.5		2.3	0.76	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.53		0.46	0.18	mg/Kg	20	☼	6020B	Total/NA
Calcium	3550		114	33.9	mg/Kg	20	☼	6020B	Total/NA
Chromium	21.9		2.3	0.69	mg/Kg	20	☼	6020B	Total/NA
Cobalt	6.5		2.3	0.69	mg/Kg	20	☼	6020B	Total/NA
Copper	7.4		2.3	0.65	mg/Kg	20	☼	6020B	Total/NA
Iron	21200		68.6	24.0	mg/Kg	20	☼	6020B	Total/NA
Lead	10.7		0.69	0.22	mg/Kg	20	☼	6020B	Total/NA
Magnesium	2680		114	31.8	mg/Kg	20	☼	6020B	Total/NA
Manganese	232		4.6	1.4	mg/Kg	20	☼	6020B	Total/NA
Nickel	12.1		2.3	0.74	mg/Kg	20	☼	6020B	Total/NA
Potassium	668		114	41.1	mg/Kg	20	☼	6020B	Total/NA
Sodium	181		114	35.8	mg/Kg	20	☼	6020B	Total/NA
Vanadium	22.4		2.3	0.65	mg/Kg	20	☼	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_10-12_20190710 (Continued)

Lab Sample ID: 460-186281-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	49.2		9.1	4.5	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.055		0.020	0.012	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.91	J	1.2	0.25	mg/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	4.4		1.2	0.22	mg/Kg	1	☼	8260C	Total/NA
o-Xylene	2.1		1.2	0.24	mg/Kg	1	☼	8260C	Total/NA
Toluene	18		1.2	0.29	mg/Kg	1	☼	8260C	Total/NA
Acenaphthylene	0.011	J	0.41	0.0042	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.14		0.041	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.13		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.17		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.094	J	0.41	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.059		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.017	J	0.41	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.14	J	0.41	0.0069	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.035	J	0.041	0.018	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.19	J	0.41	0.0053	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.011	J	0.41	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.099		0.041	0.016	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.019	J	0.41	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.15	J	0.41	0.0072	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.24	J	0.41	0.010	mg/Kg	1	☼	8270D	Total/NA
Aroclor 1260	0.062	J	0.083	0.011	mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.062	J	0.083	0.011	mg/Kg	1	☼	8082A	Total/NA
Aluminum	7990		24.0	8.2	mg/Kg	20	☼	6020B	Total/NA
Antimony	2.2		1.2	0.35	mg/Kg	20	☼	6020B	Total/NA
Arsenic	51.7		1.2	0.39	mg/Kg	20	☼	6020B	Total/NA
Barium	526		2.4	0.80	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.54		0.48	0.19	mg/Kg	20	☼	6020B	Total/NA
Cadmium	2.5		1.2	0.40	mg/Kg	20	☼	6020B	Total/NA
Calcium	29500		120	35.7	mg/Kg	20	☼	6020B	Total/NA
Chromium	19.4		2.4	0.72	mg/Kg	20	☼	6020B	Total/NA
Cobalt	18.7		2.4	0.72	mg/Kg	20	☼	6020B	Total/NA
Copper	130		2.4	0.69	mg/Kg	20	☼	6020B	Total/NA
Iron	62200		72.1	25.2	mg/Kg	20	☼	6020B	Total/NA
Lead	933		0.72	0.23	mg/Kg	20	☼	6020B	Total/NA
Magnesium	6140		120	33.4	mg/Kg	20	☼	6020B	Total/NA
Manganese	345		4.8	1.5	mg/Kg	20	☼	6020B	Total/NA
Nickel	23.4		2.4	0.78	mg/Kg	20	☼	6020B	Total/NA
Potassium	1260		120	43.3	mg/Kg	20	☼	6020B	Total/NA
Selenium	17.9		6.0	0.35	mg/Kg	20	☼	6020B	Total/NA
Sodium	311		120	37.6	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.83		0.48	0.15	mg/Kg	20	☼	6020B	Total/NA
Vanadium	30.4		2.4	0.68	mg/Kg	20	☼	6020B	Total/NA
Zinc	1180		9.6	4.7	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.86		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.16	J	0.97	0.14	mg/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	0.092		0.038	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.072		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.084		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.034	J	0.38	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.038		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.037	J	0.38	0.020	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.015	J	0.38	0.0044	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.089	J	0.38	0.0064	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14	J	0.38	0.0049	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.014	J	0.38	0.0051	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.045		0.038	0.015	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.13	J	0.38	0.0067	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.17	J	0.38	0.0094	mg/Kg	1	☼	8270D	Total/NA
Aluminum	10700		21.6	7.4	mg/Kg	20	☼	6020B	Total/NA
Arsenic	4.7		1.1	0.35	mg/Kg	20	☼	6020B	Total/NA
Barium	47.8		2.2	0.72	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.63		0.43	0.17	mg/Kg	20	☼	6020B	Total/NA
Calcium	1750		108	32.0	mg/Kg	20	☼	6020B	Total/NA
Chromium	22.3		2.2	0.65	mg/Kg	20	☼	6020B	Total/NA
Cobalt	8.7		2.2	0.65	mg/Kg	20	☼	6020B	Total/NA
Copper	20.3		2.2	0.62	mg/Kg	20	☼	6020B	Total/NA
Iron	24600		64.7	22.6	mg/Kg	20	☼	6020B	Total/NA
Lead	17.3		0.65	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	2850		108	30.0	mg/Kg	20	☼	6020B	Total/NA
Manganese	413		4.3	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	14.6		2.2	0.70	mg/Kg	20	☼	6020B	Total/NA
Potassium	1270		108	38.8	mg/Kg	20	☼	6020B	Total/NA
Selenium	0.36	J	5.4	0.31	mg/Kg	20	☼	6020B	Total/NA
Sodium	104	J	108	33.7	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.15	J	0.43	0.13	mg/Kg	20	☼	6020B	Total/NA
Vanadium	26.0		2.2	0.61	mg/Kg	20	☼	6020B	Total/NA
Zinc	53.3		8.6	4.2	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.025		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.034	J	0.36	0.0045	mg/Kg	1	☼	8270D	Total/NA
4-Methylphenol	0.012	J	0.36	0.0061	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.081	J	0.36	0.026	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.059	J	0.36	0.0037	mg/Kg	1	☼	8270D	Total/NA
Acetophenone	0.025	J	0.36	0.0058	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.25	J	0.36	0.0040	mg/Kg	1	☼	8270D	Total/NA
Benzaldehyde	0.030	J*	0.36	0.016	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.3		0.036	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.2		0.036	0.0096	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.6		0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.84		0.36	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.61		0.036	0.0071	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.67		0.36	0.019	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710 (Continued)

Lab Sample ID: 460-186281-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Butyl benzyl phthalate	0.14	J	0.36	0.017	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.12	J	0.36	0.0042	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.4		0.36	0.0061	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.24		0.036	0.016	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.056	J	0.36	0.0051	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.9		0.36	0.0047	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.095	J	0.36	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.89		0.036	0.014	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.074	J	0.36	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.3		0.36	0.0063	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.8		0.36	0.0090	mg/Kg	1	☼	8270D	Total/NA
4,4'-DDD	0.0032	J	0.0073	0.0012	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDE	0.015		0.0073	0.00086	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.012		0.0073	0.0013	mg/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.)	0.10		0.073	0.018	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.018		0.0073	0.0012	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.0025	p	0.0022	0.00095	mg/Kg	1	☼	8081B	Total/NA
trans-Chlordane	0.011	p	0.0073	0.0013	mg/Kg	1	☼	8081B	Total/NA
Aluminum	9310		21.3	7.3	mg/Kg	20	☼	6020B	Total/NA
Antimony	0.31	J	1.1	0.31	mg/Kg	20	☼	6020B	Total/NA
Arsenic	5.7		1.1	0.34	mg/Kg	20	☼	6020B	Total/NA
Barium	164		2.1	0.71	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.37	J	0.43	0.17	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.71	J	1.1	0.36	mg/Kg	20	☼	6020B	Total/NA
Calcium	74200		107	31.7	mg/Kg	20	☼	6020B	Total/NA
Chromium	25.9		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA
Cobalt	6.8		2.1	0.64	mg/Kg	20	☼	6020B	Total/NA
Copper	34.6		2.1	0.61	mg/Kg	20	☼	6020B	Total/NA
Iron	16800		64.0	22.4	mg/Kg	20	☼	6020B	Total/NA
Lead	307		0.64	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	29300		107	29.6	mg/Kg	20	☼	6020B	Total/NA
Manganese	292		4.3	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	18.2		2.1	0.69	mg/Kg	20	☼	6020B	Total/NA
Potassium	3200		107	38.4	mg/Kg	20	☼	6020B	Total/NA
Selenium	0.33	J	5.3	0.31	mg/Kg	20	☼	6020B	Total/NA
Sodium	223		107	33.4	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.17	J	0.43	0.13	mg/Kg	20	☼	6020B	Total/NA
Vanadium	31.7		2.1	0.61	mg/Kg	20	☼	6020B	Total/NA
Zinc	254		8.5	4.2	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.28		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA
Cr (VI)	3.1		2.2	0.78	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.4		8.0	7.7	mg/Kg	1	☼	8260C	Total/NA
2-Methylnaphthalene	0.043	J	0.36	0.0045	mg/Kg	1	☼	8270D	Total/NA
4-Methylphenol	0.023	J	0.36	0.0061	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.067	J	0.36	0.026	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.32	J	0.36	0.0037	mg/Kg	1	☼	8270D	Total/NA
Acetophenone	0.015	J	0.36	0.0058	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_3-5_20190710 (Continued)

Lab Sample ID: 460-186281-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.28	J	0.36	0.0040	mg/Kg	1	☼	8270D	Total/NA
Benzaldehyde	0.037	J*	0.36	0.016	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.9		0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	3.5		0.036	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	5.1		0.036	0.0093	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	2.1		0.36	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	2.0		0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.44		0.36	0.019	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.053	J	0.36	0.017	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.30	J	0.36	0.0042	mg/Kg	1	☼	8270D	Total/NA
Chrysene	3.8		0.36	0.0060	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.71		0.036	0.015	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.083	J	0.36	0.0050	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	4.1		0.36	0.0046	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.11	J	0.36	0.0049	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2.6		0.036	0.014	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.11	J	0.36	0.0062	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	2.2		0.36	0.0063	mg/Kg	1	☼	8270D	Total/NA
Pyrene	5.7		0.36	0.0089	mg/Kg	1	☼	8270D	Total/NA
4,4'-DDT	0.0077		0.0072	0.0013	mg/Kg	1	☼	8081B	Total/NA
Aluminum	3460		21.0	7.2	mg/Kg	20	☼	6020B	Total/NA
Arsenic	3.4		1.0	0.34	mg/Kg	20	☼	6020B	Total/NA
Barium	85.5		2.1	0.70	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.75	J	1.0	0.35	mg/Kg	20	☼	6020B	Total/NA
Calcium	261000		105	31.2	mg/Kg	20	☼	6020B	Total/NA
Chromium	13.2		2.1	0.63	mg/Kg	20	☼	6020B	Total/NA
Cobalt	2.9		2.1	0.63	mg/Kg	20	☼	6020B	Total/NA
Copper	21.6		2.1	0.60	mg/Kg	20	☼	6020B	Total/NA
Iron	7190		63.0	22.0	mg/Kg	20	☼	6020B	Total/NA
Lead	436		0.63	0.20	mg/Kg	20	☼	6020B	Total/NA
Magnesium	26300		105	29.2	mg/Kg	20	☼	6020B	Total/NA
Manganese	190		4.2	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	12.8		2.1	0.68	mg/Kg	20	☼	6020B	Total/NA
Potassium	1220		105	37.8	mg/Kg	20	☼	6020B	Total/NA
Sodium	122		105	32.8	mg/Kg	20	☼	6020B	Total/NA
Vanadium	16.3		2.1	0.60	mg/Kg	20	☼	6020B	Total/NA
Zinc	115		8.4	4.1	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.31		0.017	0.010	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.00092	J	0.0012	0.00054	mg/Kg	1	☼	8260C	Total/NA
Benzo[a]anthracene	0.024	J	0.039	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.015	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.018	J	0.039	0.010	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.0081	J	0.039	0.0076	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.021	J	0.39	0.0065	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.047	J	0.39	0.0050	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.055	J	0.39	0.0068	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.042	J	0.39	0.0096	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-03_0-2_20190712 (Continued)

Lab Sample ID: 460-186524-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7520		21.7	7.4	mg/Kg	20	☼	6020B	Total/NA
Arsenic	1.9		1.1	0.35	mg/Kg	20	☼	6020B	Total/NA
Barium	36.7		2.2	0.72	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.51		0.43	0.17	mg/Kg	20	☼	6020B	Total/NA
Calcium	4870		108	32.2	mg/Kg	20	☼	6020B	Total/NA
Chromium	20.7		2.2	0.65	mg/Kg	20	☼	6020B	Total/NA
Cobalt	9.5		2.2	0.65	mg/Kg	20	☼	6020B	Total/NA
Copper	20.8		2.2	0.62	mg/Kg	20	☼	6020B	Total/NA
Iron	17000		65.1	22.8	mg/Kg	20	☼	6020B	Total/NA
Lead	4.6		0.65	0.21	mg/Kg	20	☼	6020B	Total/NA
Magnesium	3720		108	30.2	mg/Kg	20	☼	6020B	Total/NA
Manganese	161		4.3	1.3	mg/Kg	20	☼	6020B	Total/NA
Nickel	14.0		2.2	0.71	mg/Kg	20	☼	6020B	Total/NA
Potassium	2300		108	39.0	mg/Kg	20	☼	6020B	Total/NA
Sodium	310		108	34.0	mg/Kg	20	☼	6020B	Total/NA
Thallium	0.18	J	0.43	0.14	mg/Kg	20	☼	6020B	Total/NA
Vanadium	25.3		2.2	0.62	mg/Kg	20	☼	6020B	Total/NA
Zinc	30.3		8.7	4.2	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.022		0.019	0.011	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	0.049	J	0.37	0.0046	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.064	J	0.37	0.027	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.092	J	0.37	0.0038	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.24	J	0.37	0.0041	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.93		0.037	0.013	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.90		0.037	0.0098	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.037	0.0095	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.57		0.37	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.41		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.071	J	0.37	0.019	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.062	J	0.37	0.017	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.14	J	0.37	0.0043	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.93		0.37	0.0062	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.17		0.037	0.016	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.064	J	0.37	0.0052	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	1.7		0.37	0.0048	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.099	J	0.37	0.0050	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.66		0.037	0.014	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.092	J	0.37	0.0064	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.1		0.37	0.0065	mg/Kg	1	☼	8270D	Total/NA
Pyrene	1.6		0.37	0.0092	mg/Kg	1	☼	8270D	Total/NA
4,4'-DDD	0.0023	J p	0.0075	0.0013	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDE	0.018		0.0075	0.00088	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.021		0.0075	0.0014	mg/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.)	0.14		0.075	0.018	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.020		0.0075	0.0012	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.012		0.0022	0.00097	mg/Kg	1	☼	8081B	Total/NA
trans-Chlordane	0.0096	p	0.0075	0.0013	mg/Kg	1	☼	8081B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_0-2_20190712 (Continued)

Lab Sample ID: 460-186524-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	7530		22.4	7.7	mg/Kg	20	☼	6020B	Total/NA
Antimony	0.40	J	1.1	0.33	mg/Kg	20	☼	6020B	Total/NA
Arsenic	6.2		1.1	0.36	mg/Kg	20	☼	6020B	Total/NA
Barium	283		2.2	0.74	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.48		0.45	0.18	mg/Kg	20	☼	6020B	Total/NA
Cadmium	0.51	J	1.1	0.38	mg/Kg	20	☼	6020B	Total/NA
Calcium	116000		112	33.2	mg/Kg	20	☼	6020B	Total/NA
Chromium	26.9		2.2	0.67	mg/Kg	20	☼	6020B	Total/NA
Cobalt	6.2		2.2	0.67	mg/Kg	20	☼	6020B	Total/NA
Copper	30.4		2.2	0.64	mg/Kg	20	☼	6020B	Total/NA
Iron	19500		67.1	23.5	mg/Kg	20	☼	6020B	Total/NA
Lead	329		0.67	0.21	mg/Kg	20	☼	6020B	Total/NA
Magnesium	9700		112	31.1	mg/Kg	20	☼	6020B	Total/NA
Manganese	294		4.5	1.4	mg/Kg	20	☼	6020B	Total/NA
Nickel	19.1		2.2	0.73	mg/Kg	20	☼	6020B	Total/NA
Potassium	1680		112	40.3	mg/Kg	20	☼	6020B	Total/NA
Sodium	548		112	35.0	mg/Kg	20	☼	6020B	Total/NA
Vanadium	26.2		2.2	0.64	mg/Kg	20	☼	6020B	Total/NA
Zinc	223		8.9	4.4	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.95		0.037	0.022	mg/Kg	2	☼	7471B	Total/NA
Cr (VI)	0.83	J	2.2	0.80	mg/Kg	1	☼	7196A	Total/NA

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.0045	J	0.0074	0.0040	mg/Kg	1	☼	8260C	Total/NA
Acetone	0.027		0.0089	0.0085	mg/Kg	1	☼	8260C	Total/NA
m-Xylene & p-Xylene	0.0010	J	0.0015	0.00026	mg/Kg	1	☼	8260C	Total/NA
o-Xylene	0.00054	J	0.0015	0.00029	mg/Kg	1	☼	8260C	Total/NA
1,1'-Biphenyl	0.029	J	0.41	0.0055	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.091	J	0.41	0.0052	mg/Kg	1	☼	8270D	Total/NA
4-Methylphenol	0.034	J	0.41	0.0070	mg/Kg	1	☼	8270D	Total/NA
Acenaphthene	0.14	J	0.41	0.030	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.54		0.41	0.0043	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.70		0.41	0.0046	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2.8		0.041	0.014	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	2.7		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	3.6		0.041	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1.8		0.41	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	1.3		0.041	0.0081	mg/Kg	1	☼	8270D	Total/NA
Bis(2-ethylhexyl) phthalate	0.10	J	0.41	0.022	mg/Kg	1	☼	8270D	Total/NA
Butyl benzyl phthalate	0.027	J	0.41	0.019	mg/Kg	1	☼	8270D	Total/NA
Carbazole	0.35	J	0.41	0.0048	mg/Kg	1	☼	8270D	Total/NA
Chrysene	2.8		0.41	0.0070	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.40		0.041	0.018	mg/Kg	1	☼	8270D	Total/NA
Dibenzofuran	0.23	J	0.41	0.0058	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	6.4		0.41	0.0054	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.15	J	0.41	0.0056	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	2.1		0.041	0.016	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.21	J	0.41	0.0071	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	4.3		0.41	0.0073	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712 (Continued)

Lab Sample ID: 460-186524-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyrene	5.7		0.41	0.010	mg/Kg	1	☼	8270D	Total/NA
4,4'-DDD	0.0020	J p	0.0084	0.0014	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDE	0.031	p	0.0084	0.00099	mg/Kg	1	☼	8081B	Total/NA
4,4'-DDT	0.010	p	0.0084	0.0015	mg/Kg	1	☼	8081B	Total/NA
Chlordane (n.o.s.)	0.46		0.084	0.020	mg/Kg	1	☼	8081B	Total/NA
cis-Chlordane	0.063		0.0084	0.0013	mg/Kg	1	☼	8081B	Total/NA
Dieldrin	0.048		0.0025	0.0011	mg/Kg	1	☼	8081B	Total/NA
trans-Chlordane	0.030	p	0.0084	0.0015	mg/Kg	1	☼	8081B	Total/NA
Aroclor 1260	0.078	J	0.084	0.011	mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.078	J	0.084	0.011	mg/Kg	1	☼	8082A	Total/NA
Aluminum	10100		25.0	8.5	mg/Kg	20	☼	6020B	Total/NA
Antimony	0.47	J	1.2	0.37	mg/Kg	20	☼	6020B	Total/NA
Arsenic	6.2		1.2	0.40	mg/Kg	20	☼	6020B	Total/NA
Barium	223		2.5	0.83	mg/Kg	20	☼	6020B	Total/NA
Beryllium	0.40	J	0.50	0.20	mg/Kg	20	☼	6020B	Total/NA
Calcium	114000		125	37.1	mg/Kg	20	☼	6020B	Total/NA
Chromium	21.4		2.5	0.75	mg/Kg	20	☼	6020B	Total/NA
Cobalt	4.8		2.5	0.75	mg/Kg	20	☼	6020B	Total/NA
Copper	20.8		2.5	0.72	mg/Kg	20	☼	6020B	Total/NA
Iron	15100		74.9	26.2	mg/Kg	20	☼	6020B	Total/NA
Lead	213		0.75	0.24	mg/Kg	20	☼	6020B	Total/NA
Magnesium	7770		125	34.7	mg/Kg	20	☼	6020B	Total/NA
Manganese	269		5.0	1.5	mg/Kg	20	☼	6020B	Total/NA
Nickel	14.3		2.5	0.81	mg/Kg	20	☼	6020B	Total/NA
Potassium	1820		125	44.9	mg/Kg	20	☼	6020B	Total/NA
Sodium	649		125	39.1	mg/Kg	20	☼	6020B	Total/NA
Vanadium	22.6		2.5	0.71	mg/Kg	20	☼	6020B	Total/NA
Zinc	151		10	4.9	mg/Kg	20	☼	6020B	Total/NA
Mercury	0.36		0.021	0.012	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U *	1.2	0.27	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.25	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.35	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,1-Dichloroethane	1.2	U	1.2	0.24	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,1-Dichloroethene	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,2,3-Trichlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.42	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.54	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,2-Dichloroethane	1.2	U	1.2	0.35	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,2-Dichloropropane	1.2	U	1.2	0.49	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,4-Dichlorobenzene	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
1,4-Dioxane	23	U	23	11	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
2-Butanone (MEK)	5.8	U	5.8	3.2	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
2-Hexanone	5.8	U	5.8	2.0	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
4-Methyl-2-pentanone (MIBK)	5.8	U	5.8	1.8	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Acetone	7.0	U	7.0	6.7	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Benzene	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Bromoform	1.2	U	1.2	0.50	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Bromomethane	1.2	U	1.2	0.55	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Carbon disulfide	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Carbon tetrachloride	1.2	U	1.2	0.45	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Chlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Chlorobromomethane	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Chlorodibromomethane	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Chloroethane	1.2	U	1.2	0.61	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Chloroform	1.2	U	1.2	0.37	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Chloromethane	1.2	U	1.2	0.51	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Cyclohexane	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Dichlorobromomethane	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Dichlorodifluoromethane	1.2	U	1.2	0.39	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Ethylbenzene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Ethylene Dibromide	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Isopropylbenzene	1.2	U	1.2	0.15	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Methyl acetate	5.8	U	5.8	5.0	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Methyl tert-butyl ether	1.2	U *	1.2	0.15	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Methylcyclohexane	1.2	U	1.2	0.58	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Methylene Chloride	0.54	J	1.2	0.54	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
m-Xylene & p-Xylene	1.2	U	1.2	0.20	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
o-Xylene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Styrene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Tetrachloroethene	0.51	J	1.2	0.17	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Toluene	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Trichlorofluoromethane	1.2	U	1.2	0.47	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Vinyl chloride	1.2	U	1.2	0.64	mg/Kg	☼	07/11/19 08:14	07/12/19 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		78 - 135				07/11/19 08:14	07/12/19 14:02	1
4-Bromofluorobenzene	101		67 - 126				07/11/19 08:14	07/12/19 14:02	1
Dibromofluoromethane (Surr)	122		61 - 149				07/11/19 08:14	07/12/19 14:02	1
Toluene-d8 (Surr)	101		73 - 121				07/11/19 08:14	07/12/19 14:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0068	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,4-Dichlorophenol	0.15	U	0.15	0.0080	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,4-Dinitrophenol	0.30	U	0.30	0.19	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,4-Dinitrotoluene	0.077	U	0.077	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2,6-Dinitrotoluene	0.077	U	0.077	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2-Chloronaphthalene	0.38	U	0.38	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2-Chlorophenol	0.38	U	0.38	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2-Methylnaphthalene	0.022	J	0.38	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2-Methylphenol	0.38	U	0.38	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.057	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
3-Nitroaniline	0.38	U	0.38	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.061	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Chloroaniline	0.38	U	0.38	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Methylphenol	0.38	U	0.38	0.0064	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
4-Nitrophenol	0.77	U	0.77	0.062	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Acenaphthene	0.040	J	0.38	0.028	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Acenaphthylene	0.23	J	0.38	0.0039	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Acetophenone	0.38	U	0.38	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Anthracene	0.30	J	0.38	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Atrazine	0.15	U *	0.15	0.0096	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Benzaldehyde	0.38	U *	0.38	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Benzo[a]anthracene	2.5		0.038	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Benzo[a]pyrene	2.1		0.038	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Benzo[b]fluoranthene	3.0		0.038	0.0098	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Benzo[g,h,i]perylene	1.2		0.38	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Benzo[k]fluoranthene	1.1		0.038	0.0074	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Bis(2-chloroethyl)ether	0.038	U	0.038	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Bis(2-ethylhexyl) phthalate	0.68		0.38	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Butyl benzyl phthalate	0.037	J	0.38	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Caprolactam	0.38	U *	0.38	0.023	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Carbazole	0.14	J	0.38	0.0044	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Chrysene	2.5		0.38	0.0064	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Dibenz(a,h)anthracene	0.44		0.038	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Dibenzofuran	0.034	J	0.38	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Diethyl phthalate	0.38	U	0.38	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Di-n-butyl phthalate	0.38	U	0.38	0.067	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Fluoranthene	3.4		0.38	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Fluorene	0.061	J	0.38	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Hexachlorobenzene	0.038	U	0.038	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Hexachlorobutadiene	0.077	U	0.077	0.0081	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.033	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Hexachloroethane	0.038	U	0.038	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Indeno[1,2,3-cd]pyrene	1.4		0.038	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Isophorone	0.15	U	0.15	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Naphthalene	0.067	J	0.38	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Nitrobenzene	0.038	U	0.038	0.0091	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0072	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Pentachlorophenol	0.30	U	0.30	0.078	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Phenanthrene	1.3		0.38	0.0067	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Phenol	0.38	U	0.38	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1
Pyrene	4.1		0.38	0.0094	mg/Kg	☼	07/11/19 08:56	07/12/19 05:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>2,4,6-Tribromophenol (Surr)</i>	49		10 - 137	07/11/19 08:56	07/12/19 05:18	1
<i>2-Fluorobiphenyl</i>	59		29 - 107	07/11/19 08:56	07/12/19 05:18	1
<i>2-Fluorophenol (Surr)</i>	53		20 - 115	07/11/19 08:56	07/12/19 05:18	1
<i>Nitrobenzene-d5 (Surr)</i>	57		25 - 113	07/11/19 08:56	07/12/19 05:18	1
<i>Phenol-d5 (Surr)</i>	54		28 - 109	07/11/19 08:56	07/12/19 05:18	1
<i>Terphenyl-d14 (Surr)</i>	62		27 - 123	07/11/19 08:56	07/12/19 05:18	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.018		0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
4,4'-DDE	0.052		0.0076	0.00090	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
4,4'-DDT	0.14		0.0076	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Aldrin	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
alpha-BHC	0.0023	U	0.0023	0.00078	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
beta-BHC	0.0023	U	0.0023	0.00086	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Chlordane (n.o.s.)	0.18		0.076	0.018	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
cis-Chlordane	0.028	p	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
delta-BHC	0.0023	U	0.0023	0.00047	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Dieldrin	0.019		0.0023	0.00099	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Endosulfan II	0.0076	U	0.0076	0.0020	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Endosulfan sulfate	0.0076	U	0.0076	0.00096	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Endrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Endrin aldehyde	0.0076	U	0.0076	0.0018	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Endrin ketone	0.0076	U	0.0076	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00071	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Heptachlor	0.0076	U	0.0076	0.00090	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Heptachlor epoxide	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Methoxychlor	0.0076	U	0.0076	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
Toxaphene	0.076	U	0.076	0.028	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1
trans-Chlordane	0.029		0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	237	*	49 - 150	07/11/19 08:46	07/12/19 11:18	1
DCB Decachlorobiphenyl	147		49 - 150	07/11/19 08:46	07/12/19 11:18	1
Tetrachloro-m-xylene	70		47 - 150	07/11/19 08:46	07/12/19 11:18	1
Tetrachloro-m-xylene	66		47 - 150	07/11/19 08:46	07/12/19 11:18	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1221	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1232	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1242	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1248	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1254	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1260	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor-1262	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Aroclor 1268	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1
Polychlorinated biphenyls, Total	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		53 - 150	07/11/19 08:38	07/12/19 10:30	1
DCB Decachlorobiphenyl	105		53 - 150	07/11/19 08:38	07/12/19 10:30	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	14700		21.5	7.4	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Antimony	1.1	U	1.1	0.32	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Arsenic	2.2		1.1	0.35	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Barium	79.1		2.2	0.71	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Beryllium	0.70		0.43	0.17	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Cadmium	0.75	J	1.1	0.36	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Calcium	53300		108	32.0	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Chromium	23.4		2.2	0.65	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Cobalt	14.1		2.2	0.65	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Copper	14.5		2.2	0.62	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Iron	23100		64.6	22.6	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Lead	12.2		0.65	0.20	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.7

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	23300		108	29.9	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Manganese	1790		4.3	1.3	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Nickel	14.4		2.2	0.70	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Potassium	1420		108	38.7	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Selenium	5.4	U	5.4	0.31	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Silver	1.1	U	1.1	0.66	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Sodium	184		108	33.7	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Thallium	0.86		0.43	0.13	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Vanadium	27.3		2.2	0.61	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20
Zinc	47.8		8.6	4.2	mg/Kg	☼	07/11/19 07:28	07/11/19 19:00	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20		0.018	0.010	mg/Kg	☼	07/11/19 05:55	07/11/19 10:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.3	U	2.3	0.83	mg/Kg	☼	07/15/19 08:06	07/15/19 14:03	1
Percent Moisture	12.3		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	87.7		1.0	1.0	%			07/14/19 02:11	1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U *	1.2	0.27	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.25	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.35	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,1-Dichloroethane	1.2	U	1.2	0.24	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,1-Dichloroethene	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,2,3-Trichlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.42	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.54	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,2-Dichloroethane	1.2	U	1.2	0.34	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,2-Dichloropropane	1.2	U	1.2	0.49	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,4-Dichlorobenzene	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
1,4-Dioxane	23	U	23	11	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
2-Butanone (MEK)	5.8	U	5.8	3.2	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
2-Hexanone	5.8	U	5.8	2.0	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
4-Methyl-2-pentanone (MIBK)	5.8	U	5.8	1.8	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Acetone	7.0	U	7.0	6.7	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Benzene	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Bromoform	1.2	U	1.2	0.50	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Bromomethane	1.2	U	1.2	0.55	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Carbon disulfide	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.2	U	1.2	0.45	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Chlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Chlorobromomethane	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Chlorodibromomethane	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Chloroethane	1.2	U	1.2	0.61	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Chloroform	1.2	U	1.2	0.37	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Chloromethane	1.2	U	1.2	0.51	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Cyclohexane	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Dichlorobromomethane	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Dichlorodifluoromethane	1.2	U	1.2	0.39	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Ethylbenzene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Ethylene Dibromide	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Isopropylbenzene	1.2	U	1.2	0.15	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Methyl acetate	5.8	U	5.8	5.0	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Methyl tert-butyl ether	1.2	U *	1.2	0.15	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Methylcyclohexane	1.2	U	1.2	0.58	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Methylene Chloride	0.96	J	1.2	0.54	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
m-Xylene & p-Xylene	1.2	U	1.2	0.20	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
o-Xylene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Styrene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Tetrachloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Toluene	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Trichloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Trichlorofluoromethane	1.2	U	1.2	0.47	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1
Vinyl chloride	1.2	U	1.2	0.64	mg/Kg	☼	07/11/19 08:15	07/12/19 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		78 - 135	07/11/19 08:15	07/12/19 14:26	1
4-Bromofluorobenzene	97		67 - 126	07/11/19 08:15	07/12/19 14:26	1
Dibromofluoromethane (Surr)	119		61 - 149	07/11/19 08:15	07/12/19 14:26	1
Toluene-d8 (Surr)	100		73 - 121	07/11/19 08:15	07/12/19 14:26	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0068	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,4-Dichlorophenol	0.15	U	0.15	0.0079	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,4-Dinitrotoluene	0.076	U	0.076	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2,6-Dinitrotoluene	0.076	U	0.076	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2-Methylnaphthalene	0.37	U	0.37	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2-Methylphenol	0.37	U	0.37	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.057	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.061	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0062	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Methylphenol	0.37	U	0.37	0.0064	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
4-Nitrophenol	0.76	U	0.76	0.061	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Acenaphthene	0.37	U	0.37	0.027	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Acenaphthylene	0.37	U	0.37	0.0039	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Acetophenone	0.37	U	0.37	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Anthracene	0.37	U	0.37	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Atrazine	0.15	U *	0.15	0.0094	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Benzaldehyde	0.37	U *	0.37	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Benzo[a]anthracene	0.088		0.037	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Benzo[a]pyrene	0.067		0.037	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Benzo[b]fluoranthene	0.088		0.037	0.0097	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Benzo[g,h,i]perylene	0.045 J		0.37	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Benzo[k]fluoranthene	0.035 J		0.037	0.0073	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.0045	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Bis(2-ethylhexyl) phthalate	0.055 J		0.37	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Butyl benzyl phthalate	0.37	U	0.37	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Caprolactam	0.37	U *	0.37	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Carbazole	0.014 J		0.37	0.0044	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Chrysene	0.092 J		0.37	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Dibenz(a,h)anthracene	0.037	U	0.037	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Dibenzofuran	0.37	U	0.37	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Diethyl phthalate	0.37	U	0.37	0.0054	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Dimethyl phthalate	0.37	U	0.37	0.0045	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Di-n-butyl phthalate	0.37	U	0.37	0.066	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Fluoranthene	0.17 J		0.37	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Fluorene	0.014 J		0.37	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Hexachlorobenzene	0.037	U	0.037	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Hexachlorobutadiene	0.076	U	0.076	0.0080	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Hexachloroethane	0.037	U	0.037	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Indeno[1,2,3-cd]pyrene	0.044		0.037	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Isophorone	0.15	U	0.15	0.0098	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Naphthalene	0.37	U	0.37	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Nitrobenzene	0.037	U	0.037	0.0090	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0072	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Pentachlorophenol	0.30	U	0.30	0.077	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Phenanthrene	0.16	J	0.37	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1
Pyrene	0.19	J	0.37	0.0093	mg/Kg	☼	07/11/19 08:56	07/12/19 03:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	39		10 - 137	07/11/19 08:56	07/12/19 03:46	1
2-Fluorobiphenyl	42		29 - 107	07/11/19 08:56	07/12/19 03:46	1
2-Fluorophenol (Surr)	43		20 - 115	07/11/19 08:56	07/12/19 03:46	1
Nitrobenzene-d5 (Surr)	41		25 - 113	07/11/19 08:56	07/12/19 03:46	1
Phenol-d5 (Surr)	45		28 - 109	07/11/19 08:56	07/12/19 03:46	1
Terphenyl-d14 (Surr)	50		27 - 123	07/11/19 08:56	07/12/19 03:46	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0076	U	0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
4,4'-DDE	0.0076	U	0.0076	0.00090	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
4,4'-DDT	0.0076	U	0.0076	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Aldrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
alpha-BHC	0.0023	U	0.0023	0.00077	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
beta-BHC	0.0023	U	0.0023	0.00085	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Chlordane (n.o.s.)	0.076	U	0.076	0.018	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
cis-Chlordane	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
delta-BHC	0.0023	U	0.0023	0.00046	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Dieldrin	0.0023	U	0.0023	0.00099	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Endosulfan I	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Endosulfan II	0.0076	U	0.0076	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Endosulfan sulfate	0.0076	U	0.0076	0.00095	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Endrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Endrin aldehyde	0.0076	U	0.0076	0.0018	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Endrin ketone	0.0076	U	0.0076	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00070	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Heptachlor	0.0076	U	0.0076	0.00090	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Heptachlor epoxide	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Methoxychlor	0.0076	U	0.0076	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
Toxaphene	0.076	U	0.076	0.027	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1
trans-Chlordane	0.0076	U	0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		49 - 150	07/11/19 08:46	07/12/19 11:30	1
DCB Decachlorobiphenyl	92		49 - 150	07/11/19 08:46	07/12/19 11:30	1
Tetrachloro-m-xylene	71		47 - 150	07/11/19 08:46	07/12/19 11:30	1
Tetrachloro-m-xylene	72		47 - 150	07/11/19 08:46	07/12/19 11:30	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor 1221	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor 1242	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor 1248	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor 1254	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor 1260	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor-1262	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Aroclor 1268	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1
Polychlorinated biphenyls, Total	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 10:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	102		53 - 150	07/11/19 08:38	07/12/19 10:51	1
DCB Decachlorobiphenyl	109		53 - 150	07/11/19 08:38	07/12/19 10:51	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6870		20.8	7.1	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Antimony	1.0	U	1.0	0.30	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Arsenic	4.0		1.0	0.33	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Barium	1410		2.1	0.69	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Beryllium	0.30	J	0.42	0.17	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Cadmium	0.64	J	1.0	0.35	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Calcium	38800		104	30.9	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Chromium	12.9		2.1	0.62	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Cobalt	4.4		2.1	0.63	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Copper	18.8		2.1	0.60	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Iron	9590		62.3	21.8	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Lead	214		0.62	0.20	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Magnesium	3860		104	28.9	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Manganese	171		4.2	1.3	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Nickel	9.9		2.1	0.68	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Potassium	1170		104	37.4	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Selenium	5.2	U	5.2	0.30	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Silver	1.0	U	1.0	0.64	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Sodium	652		104	32.5	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Thallium	0.42	U	0.42	0.13	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Vanadium	21.3		2.1	0.59	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20
Zinc	714		8.3	4.1	mg/Kg	☼	07/11/19 07:28	07/11/19 19:07	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.049		0.018	0.011	mg/Kg	☼	07/11/19 05:55	07/11/19 11:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.3	U	2.3	0.82	mg/Kg	☼	07/15/19 08:06	07/15/19 14:03	1
Percent Moisture	11.7		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	88.3		1.0	1.0	%			07/14/19 02:11	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	U *	1.3	0.30	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,1,2,2-Tetrachloroethane	1.3	U	1.3	0.28	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U	1.3	0.39	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,1,2-Trichloroethane	1.3	U	1.3	0.23	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,1-Dichloroethane	1.3	U	1.3	0.27	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,1-Dichloroethene	1.3	U	1.3	0.29	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,2,3-Trichlorobenzene	1.3	U	1.3	0.23	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,2,4-Trichlorobenzene	1.3	U	1.3	0.46	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,2-Dibromo-3-Chloropropane	1.3	U	1.3	0.60	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,2-Dichlorobenzene	1.3	U	1.3	0.19	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,2-Dichloroethane	1.3	U	1.3	0.38	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,2-Dichloropropane	1.3	U	1.3	0.55	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,3-Dichlorobenzene	1.3	U	1.3	0.21	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,4-Dichlorobenzene	1.3	U	1.3	0.29	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
1,4-Dioxane	26	U	26	12	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
2-Butanone (MEK)	6.5	U	6.5	3.5	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
2-Hexanone	6.5	U	6.5	2.2	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
4-Methyl-2-pentanone (MIBK)	6.5	U	6.5	2.0	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Acetone	7.8	U	7.8	7.4	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Benzene	1.3	U	1.3	0.33	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Bromoform	1.3	U	1.3	0.55	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Bromomethane	1.3	U	1.3	0.61	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Carbon disulfide	1.3	U	1.3	0.34	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Carbon tetrachloride	1.3	U	1.3	0.50	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Chlorobenzene	1.3	U	1.3	0.23	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Chlorobromomethane	1.3	U	1.3	0.36	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Chlorodibromomethane	1.3	U	1.3	0.25	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Chloroethane	1.3	U	1.3	0.68	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Chloroform	1.3	U	1.3	0.41	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Chloromethane	1.3	U	1.3	0.56	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
cis-1,2-Dichloroethene	1.3	U	1.3	0.20	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
cis-1,3-Dichloropropene	1.3	U	1.3	0.35	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Cyclohexane	1.3	U	1.3	0.29	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Dichlorobromomethane	1.3	U	1.3	0.33	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Dichlorodifluoromethane	1.3	U	1.3	0.44	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Ethylbenzene	1.3	U	1.3	0.26	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Ethylene Dibromide	1.3	U	1.3	0.23	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Isopropylbenzene	1.3	U	1.3	0.16	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Methyl acetate	6.5	U	6.5	5.6	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Methyl tert-butyl ether	1.3	U *	1.3	0.16	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Methylcyclohexane	1.3	U	1.3	0.65	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Methylene Chloride	1.3	U	1.3	0.60	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
m-Xylene & p-Xylene	1.3	U	1.3	0.23	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
o-Xylene	1.3	U	1.3	0.25	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Styrene	1.3	U	1.3	0.36	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Tetrachloroethene	0.34	J	1.3	0.19	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Toluene	1.3	U	1.3	0.30	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
trans-1,2-Dichloroethene	1.3	U	1.3	0.32	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
trans-1,3-Dichloropropene	1.3	U	1.3	0.34	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.3	U	1.3	0.19	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Trichlorofluoromethane	1.3	U	1.3	0.53	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Vinyl chloride	1.3	U	1.3	0.71	mg/Kg	☼	07/11/19 08:17	07/12/19 14:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		78 - 135				07/11/19 08:17	07/12/19 14:51	1
4-Bromofluorobenzene	98		67 - 126				07/11/19 08:17	07/12/19 14:51	1
Dibromofluoromethane (Surr)	117		61 - 149				07/11/19 08:17	07/12/19 14:51	1
Toluene-d8 (Surr)	101		73 - 121				07/11/19 08:17	07/12/19 14:51	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.036	J	0.37	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0068	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,4-Dichlorophenol	0.15	U	0.15	0.0079	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,4-Dinitrotoluene	0.076	U	0.076	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2,6-Dinitrotoluene	0.076	U	0.076	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2-Methylnaphthalene	0.084	J	0.37	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2-Methylphenol	0.37	U	0.37	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.061	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0062	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Methylphenol	0.015	J	0.37	0.0064	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
4-Nitrophenol	0.76	U	0.76	0.061	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Acenaphthene	0.056	J	0.37	0.027	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Acenaphthylene	0.36	J	0.37	0.0039	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Acetophenone	0.37	U	0.37	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Anthracene	0.40		0.37	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Atrazine	0.15	U *	0.15	0.0094	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Benzaldehyde	0.37	U *	0.37	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Benzo[a]anthracene	2.2		0.037	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Benzo[a]pyrene	2.1		0.037	0.0099	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Benzo[b]fluoranthene	3.2		0.037	0.0097	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Benzo[g,h,i]perylene	1.5		0.37	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Benzo[k]fluoranthene	1.3		0.037	0.0073	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.0045	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Bis(2-ethylhexyl) phthalate	0.13	J	0.37	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Butyl benzyl phthalate	0.37	U	0.37	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Caprolactam	0.37	U *	0.37	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Carbazole	0.50		0.37	0.0044	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Chrysene	2.6		0.37	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Dibenz(a,h)anthracene	0.41		0.037	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Dibenzofuran	0.35	J	0.37	0.0052	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Diethyl phthalate	0.37	U	0.37	0.0054	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Dimethyl phthalate	0.37	U	0.37	0.0045	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Di-n-butyl phthalate	0.37	U	0.37	0.066	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Fluoranthene	5.2		0.37	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Fluorene	0.20	J	0.37	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Hexachlorobenzene	0.037	U	0.037	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Hexachlorobutadiene	0.076	U	0.076	0.0079	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Hexachlorocyclopentadiene	0.37	U	0.37	0.033	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Hexachloroethane	0.037	U	0.037	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Indeno[1,2,3-cd]pyrene	1.7		0.037	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Isophorone	0.15	U	0.15	0.0098	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Naphthalene	0.14	J	0.37	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Nitrobenzene	0.037	U	0.037	0.0090	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0071	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Phenanthrene	5.5		0.37	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1
Pyrene	5.1		0.37	0.0093	mg/Kg	☼	07/11/19 08:56	07/12/19 05:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	34		10 - 137	07/11/19 08:56	07/12/19 05:41	1
2-Fluorobiphenyl	52		29 - 107	07/11/19 08:56	07/12/19 05:41	1
2-Fluorophenol (Surr)	50		20 - 115	07/11/19 08:56	07/12/19 05:41	1
Nitrobenzene-d5 (Surr)	49		25 - 113	07/11/19 08:56	07/12/19 05:41	1
Phenol-d5 (Surr)	48		28 - 109	07/11/19 08:56	07/12/19 05:41	1
Terphenyl-d14 (Surr)	56		27 - 123	07/11/19 08:56	07/12/19 05:41	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0076	U	0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
4,4'-DDE	0.0076	U	0.0076	0.00089	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
4,4'-DDT	0.23		0.0076	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Aldrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
alpha-BHC	0.0023	U	0.0023	0.00077	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
beta-BHC	0.0023	U	0.0023	0.00085	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Chlordane (n.o.s.)	0.076	U	0.076	0.018	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
cis-Chlordane	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
delta-BHC	0.0023	U	0.0023	0.00046	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Dieldrin	0.0023	U	0.0023	0.00098	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.5

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Endosulfan II	0.0076	U	0.0076	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Endosulfan sulfate	0.0076	U	0.0076	0.00095	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Endrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Endrin aldehyde	0.0076	U	0.0076	0.0018	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Endrin ketone	0.0076	U	0.0076	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00070	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Heptachlor	0.0076	U	0.0076	0.00089	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Heptachlor epoxide	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Methoxychlor	0.0076	U	0.0076	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
Toxaphene	0.076	U	0.076	0.027	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1
trans-Chlordane	0.0076	U	0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	4182	*	49 - 150	07/11/19 08:46	07/12/19 11:42	1
DCB Decachlorobiphenyl	3249	*	49 - 150	07/11/19 08:46	07/12/19 11:42	1
Tetrachloro-m-xylene	74		47 - 150	07/11/19 08:46	07/12/19 11:42	1
Tetrachloro-m-xylene	72		47 - 150	07/11/19 08:46	07/12/19 11:42	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1221	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1232	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1242	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1248	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1254	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1260	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor-1262	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Aroclor 1268	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1
Polychlorinated biphenyls, Total	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 11:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		53 - 150	07/11/19 08:38	07/12/19 11:10	1
DCB Decachlorobiphenyl	94		53 - 150	07/11/19 08:38	07/12/19 11:10	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	6870		22.6	7.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Antimony	1.1	U	1.1	0.33	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Arsenic	4.8		1.1	0.36	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Barium	784		2.3	0.75	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Beryllium	0.20	J	0.45	0.18	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Cadmium	0.60	J	1.1	0.38	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Calcium	48200		113	33.6	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Chromium	15.5		2.3	0.68	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Cobalt	4.6		2.3	0.68	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Copper	144		2.3	0.65	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Iron	9520		67.8	23.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Lead	172		0.68	0.21	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.5

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	5480		113	31.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Manganese	184		4.5	1.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Nickel	10		2.3	0.74	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Potassium	1310		113	40.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Selenium	5.7	U	5.7	0.33	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Silver	1.1	U	1.1	0.70	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Sodium	664		113	35.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Thallium	0.45	U	0.45	0.14	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Vanadium	21.4		2.3	0.64	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20
Zinc	499		9.0	4.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:30	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.018	0.011	mg/Kg	☼	07/12/19 05:06	07/12/19 09:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.3	U	2.3	0.82	mg/Kg	☼	07/15/19 08:06	07/15/19 14:03	1
Percent Moisture	11.5		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	88.5		1.0	1.0	%			07/14/19 02:11	1

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U *	1.2	0.28	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.25	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.36	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,1-Dichloroethane	1.2	U	1.2	0.25	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,1-Dichloroethene	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,2,3-Trichlorobenzene	1.2	U	1.2	0.22	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.43	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.55	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,2-Dichloroethane	1.2	U	1.2	0.35	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,2-Dichloropropane	1.2	U	1.2	0.50	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,3-Dichlorobenzene	1.2	U	1.2	0.19	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,4-Dichlorobenzene	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
1,4-Dioxane	24	U	24	11	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
2-Butanone (MEK)	6.0	U	6.0	3.2	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
2-Hexanone	6.0	U	6.0	2.0	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
4-Methyl-2-pentanone (MIBK)	6.0	U	6.0	1.9	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Acetone	33		7.1	6.8	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Benzene	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Bromoform	1.2	U	1.2	0.51	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Bromomethane	1.2	U	1.2	0.56	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Carbon disulfide	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.2	U	1.2	0.46	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Chlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Chlorobromomethane	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Chlorodibromomethane	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Chloroethane	1.2	U	1.2	0.62	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Chloroform	1.2	U	1.2	0.38	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Chloromethane	1.2	U	1.2	0.52	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
cis-1,2-Dichloroethene	2.5		1.2	0.18	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Cyclohexane	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Dichlorobromomethane	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Dichlorodifluoromethane	1.2	U	1.2	0.40	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Ethylbenzene	1.2	U	1.2	0.24	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Ethylene Dibromide	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Isopropylbenzene	1.2	U	1.2	0.15	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Methyl acetate	6.0	U	6.0	5.1	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Methyl tert-butyl ether	1.2	U *	1.2	0.15	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Methylcyclohexane	1.2	U	1.2	0.59	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Methylene Chloride	1.2	U	1.2	0.55	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
m-Xylene & p-Xylene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
o-Xylene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Styrene	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Tetrachloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Toluene	1.2	U	1.2	0.28	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Trichloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Trichlorofluoromethane	1.2	U	1.2	0.48	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1
Vinyl chloride	1.2	U	1.2	0.65	mg/Kg	☼	07/11/19 08:19	07/12/19 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		78 - 135	07/11/19 08:19	07/12/19 15:16	1
4-Bromofluorobenzene	98		67 - 126	07/11/19 08:19	07/12/19 15:16	1
Dibromofluoromethane (Surr)	123		61 - 149	07/11/19 08:19	07/12/19 15:16	1
Toluene-d8 (Surr)	102		73 - 121	07/11/19 08:19	07/12/19 15:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.41	U	0.41	0.0054	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
1,2,4,5-Tetrachlorobenzene	0.41	U	0.41	0.0054	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,2'-oxybis[1-chloropropane]	0.41	U	0.41	0.0074	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,3,4,6-Tetrachlorophenol	0.41	U	0.41	0.028	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,4-Dichlorophenol	0.16	U	0.16	0.0086	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,4-Dimethylphenol	0.41	U	0.41	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,4-Dinitrophenol	0.33	U	0.33	0.20	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,4-Dinitrotoluene	0.083	U	0.083	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2,6-Dinitrotoluene	0.083	U	0.083	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2-Chloronaphthalene	0.41	U	0.41	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.41	U	0.41	0.0057	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2-Methylnaphthalene	0.41	U	0.41	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2-Methylphenol	0.41	U	0.41	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
2-Nitrophenol	0.41	U	0.41	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.062	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
3-Nitroaniline	0.41	U	0.41	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.066	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Bromophenyl phenyl ether	0.41	U	0.41	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.0068	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Chloroaniline	0.41	U	0.41	0.029	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Chlorophenyl phenyl ether	0.41	U	0.41	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Methylphenol	0.41	U	0.41	0.0070	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
4-Nitrophenol	0.83	U	0.83	0.067	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Acenaphthene	0.41	U	0.41	0.030	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Acenaphthylene	0.41	U	0.41	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Acetophenone	0.41	U	0.41	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Anthracene	0.41	U	0.41	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Atrazine	0.16	U *	0.16	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Benzaldehyde	0.41	U *	0.41	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Benzo[a]anthracene	0.041	U	0.041	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Benzo[a]pyrene	0.041	U	0.041	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Benzo[b]fluoranthene	0.041	U	0.041	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Benzo[g,h,i]perylene	0.41	U	0.41	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Benzo[k]fluoranthene	0.041	U	0.041	0.0080	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Bis(2-chloroethoxy)methane	0.41	U	0.41	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Bis(2-chloroethyl)ether	0.041	U	0.041	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Bis(2-ethylhexyl) phthalate	0.41	U	0.41	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Butyl benzyl phthalate	0.41	U	0.41	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Caprolactam	0.41	U *	0.41	0.025	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Carbazole	0.41	U	0.41	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Chrysene	0.41	U	0.41	0.0069	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Dibenz(a,h)anthracene	0.041	U	0.041	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Dibenzofuran	0.41	U	0.41	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Diethyl phthalate	0.41	U	0.41	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Dimethyl phthalate	0.41	U	0.41	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Di-n-butyl phthalate	0.41	U	0.41	0.072	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Di-n-octyl phthalate	0.41	U	0.41	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Fluoranthene	0.41	U	0.41	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Fluorene	0.41	U	0.41	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Hexachlorobenzene	0.041	U	0.041	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Hexachlorobutadiene	0.083	U	0.083	0.0087	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Hexachlorocyclopentadiene	0.41	U	0.41	0.036	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Hexachloroethane	0.041	U	0.041	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Indeno[1,2,3-cd]pyrene	0.041	U	0.041	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Isophorone	0.16	U	0.16	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Naphthalene	0.41	U	0.41	0.0071	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Nitrobenzene	0.041	U	0.041	0.0098	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.041	U	0.041	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
N-Nitrosodiphenylamine	0.41	U	0.41	0.0078	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Pentachlorophenol	0.33	U	0.33	0.084	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Phenanthrene	0.41	U	0.41	0.0072	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Phenol	0.41	U	0.41	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1
Pyrene	0.41	U	0.41	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 02:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	41		10 - 137	07/11/19 08:56	07/12/19 02:13	1
2-Fluorobiphenyl	59		29 - 107	07/11/19 08:56	07/12/19 02:13	1
2-Fluorophenol (Surr)	60		20 - 115	07/11/19 08:56	07/12/19 02:13	1
Nitrobenzene-d5 (Surr)	57		25 - 113	07/11/19 08:56	07/12/19 02:13	1
Phenol-d5 (Surr)	61		28 - 109	07/11/19 08:56	07/12/19 02:13	1
Terphenyl-d14 (Surr)	69		27 - 123	07/11/19 08:56	07/12/19 02:13	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0083	U	0.0083	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
4,4'-DDE	0.0083	U	0.0083	0.00097	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
4,4'-DDT	0.0083	U	0.0083	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Aldrin	0.0083	U	0.0083	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
alpha-BHC	0.0025	U	0.0025	0.00084	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
beta-BHC	0.0025	U	0.0025	0.00093	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Chlordane (n.o.s.)	0.083	U	0.083	0.020	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
cis-Chlordane	0.0083	U	0.0083	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
delta-BHC	0.0025	U	0.0025	0.00051	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Dieldrin	0.0025	U	0.0025	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Endosulfan I	0.0083	U	0.0083	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Endosulfan II	0.0083	U	0.0083	0.0021	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Endosulfan sulfate	0.0083	U	0.0083	0.0010	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Endrin	0.0083	U	0.0083	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Endrin aldehyde	0.0083	U	0.0083	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Endrin ketone	0.0083	U	0.0083	0.0016	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
gamma-BHC (Lindane)	0.0025	U	0.0025	0.00077	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Heptachlor	0.0083	U	0.0083	0.00097	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Heptachlor epoxide	0.0083	U	0.0083	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Methoxychlor	0.0083	U	0.0083	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
Toxaphene	0.083	U	0.083	0.030	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1
trans-Chlordane	0.0083	U	0.0083	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 11:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	247	*	49 - 150	07/11/19 08:46	07/12/19 11:55	1
DCB Decachlorobiphenyl	81		49 - 150	07/11/19 08:46	07/12/19 11:55	1
Tetrachloro-m-xylene	68		47 - 150	07/11/19 08:46	07/12/19 11:55	1
Tetrachloro-m-xylene	69		47 - 150	07/11/19 08:46	07/12/19 11:55	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor 1221	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor 1242	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor 1248	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor 1254	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor 1260	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor-1262	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Aroclor 1268	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1
Polychlorinated biphenyls, Total	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	77		53 - 150	07/11/19 08:38	07/12/19 11:29	1
DCB Decachlorobiphenyl	89		53 - 150	07/11/19 08:38	07/12/19 11:29	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		22.9	7.8	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Antimony	1.1	U	1.1	0.33	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Arsenic	4.0		1.1	0.37	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Barium	65.5		2.3	0.76	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Beryllium	0.53		0.46	0.18	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Cadmium	1.1	U	1.1	0.38	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Calcium	3550		114	33.9	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Chromium	21.9		2.3	0.69	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Cobalt	6.5		2.3	0.69	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Copper	7.4		2.3	0.65	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Iron	21200		68.6	24.0	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Lead	10.7		0.69	0.22	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Magnesium	2680		114	31.8	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Manganese	232		4.6	1.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Nickel	12.1		2.3	0.74	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Potassium	668		114	41.1	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Selenium	5.7	U	5.7	0.33	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Silver	1.1	U	1.1	0.71	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Sodium	181		114	35.8	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Thallium	0.46	U	0.46	0.14	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Vanadium	22.4		2.3	0.65	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20
Zinc	49.2		9.1	4.5	mg/Kg	☼	07/11/19 10:31	07/11/19 19:32	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.020	0.012	mg/Kg	☼	07/12/19 05:06	07/12/19 09:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.5	U	2.5	0.88	mg/Kg	☼	07/15/19 08:06	07/15/19 14:03	1
Percent Moisture	19.0		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	81.0		1.0	1.0	%			07/14/19 02:11	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U *	1.2	0.29	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.37	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,1,2-Trichloroethane	1.2	U	1.2	0.22	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,1-Dichloroethane	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,1-Dichloroethene	1.2	U	1.2	0.28	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,2,3-Trichlorobenzene	1.2	U	1.2	0.22	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.44	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.57	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,2-Dichlorobenzene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,2-Dichloroethane	1.2	U	1.2	0.37	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,2-Dichloropropane	1.2	U	1.2	0.52	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,3-Dichlorobenzene	1.2	U	1.2	0.20	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,4-Dichlorobenzene	1.2	U	1.2	0.28	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
1,4-Dioxane	25	U	25	11	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
2-Butanone (MEK)	6.2	U	6.2	3.4	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
2-Hexanone	6.2	U	6.2	2.1	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
4-Methyl-2-pentanone (MIBK)	6.2	U	6.2	1.9	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Acetone	7.4	U	7.4	7.1	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Benzene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Bromoform	1.2	U	1.2	0.53	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Bromomethane	1.2	U	1.2	0.59	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Carbon disulfide	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Carbon tetrachloride	1.2	U	1.2	0.48	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Chlorobenzene	1.2	U	1.2	0.22	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Chlorobromomethane	1.2	U	1.2	0.35	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Chlorodibromomethane	1.2	U	1.2	0.24	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Chloroethane	1.2	U	1.2	0.65	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Chloroform	1.2	U	1.2	0.40	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Chloromethane	1.2	U	1.2	0.54	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.19	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.34	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Cyclohexane	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Dichlorobromomethane	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Dichlorodifluoromethane	1.2	U	1.2	0.42	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Ethylbenzene	0.91	J	1.2	0.25	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Ethylene Dibromide	1.2	U	1.2	0.22	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Isopropylbenzene	1.2	U	1.2	0.16	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Methyl acetate	6.2	U	6.2	5.3	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Methyl tert-butyl ether	1.2	U *	1.2	0.15	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Methylcyclohexane	1.2	U	1.2	0.62	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Methylene Chloride	1.2	U	1.2	0.57	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
m-Xylene & p-Xylene	4.4		1.2	0.22	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
o-Xylene	2.1		1.2	0.24	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Styrene	1.2	U	1.2	0.34	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Tetrachloroethene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Toluene	18		1.2	0.29	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 80.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Trichlorofluoromethane	1.2	U	1.2	0.50	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Vinyl chloride	1.2	U	1.2	0.68	mg/Kg	☼	07/11/19 08:20	07/12/19 15:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		78 - 135				07/11/19 08:20	07/12/19 15:41	1
4-Bromofluorobenzene	96		67 - 126				07/11/19 08:20	07/12/19 15:41	1
Dibromofluoromethane (Surr)	116		61 - 149				07/11/19 08:20	07/12/19 15:41	1
Toluene-d8 (Surr)	99		73 - 121				07/11/19 08:20	07/12/19 15:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.41	U	0.41	0.0054	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
1,2,4,5-Tetrachlorobenzene	0.41	U	0.41	0.0054	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,2'-oxybis[1-chloropropane]	0.41	U	0.41	0.0074	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,3,4,6-Tetrachlorophenol	0.41	U	0.41	0.028	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,4,6-Trichlorophenol	0.17	U	0.17	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,4-Dichlorophenol	0.17	U	0.17	0.0087	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,4-Dimethylphenol	0.41	U	0.41	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,4-Dinitrophenol	0.33	U	0.33	0.20	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,4-Dinitrotoluene	0.083	U	0.083	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2,6-Dinitrotoluene	0.083	U	0.083	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2-Chloronaphthalene	0.41	U	0.41	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2-Chlorophenol	0.41	U	0.41	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2-Methylnaphthalene	0.41	U	0.41	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2-Methylphenol	0.41	U	0.41	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
2-Nitrophenol	0.41	U	0.41	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.062	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
3-Nitroaniline	0.41	U	0.41	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.067	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Bromophenyl phenyl ether	0.41	U	0.41	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.0068	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Chloroaniline	0.41	U	0.41	0.029	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Chlorophenyl phenyl ether	0.41	U	0.41	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Methylphenol	0.41	U	0.41	0.0070	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
4-Nitrophenol	0.83	U	0.83	0.067	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Acenaphthene	0.41	U	0.41	0.030	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Acenaphthylene	0.011	J	0.41	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Acetophenone	0.41	U	0.41	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Anthracene	0.41	U	0.41	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Atrazine	0.17	U *	0.17	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Benzaldehyde	0.41	U *	0.41	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Benzo[a]anthracene	0.14		0.041	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Benzo[a]pyrene	0.13		0.041	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Benzo[b]fluoranthene	0.17		0.041	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Benzo[g,h,i]perylene	0.094	J	0.41	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Benzo[k]fluoranthene	0.059		0.041	0.0081	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 80.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.41	U	0.41	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Bis(2-chloroethyl)ether	0.041	U	0.041	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Bis(2-ethylhexyl) phthalate	0.41	U	0.41	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Butyl benzyl phthalate	0.41	U	0.41	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Caprolactam	0.41	U *	0.41	0.025	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Carbazole	0.017	J	0.41	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Chrysene	0.14	J	0.41	0.0069	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Dibenz(a,h)anthracene	0.035	J	0.041	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Dibenzofuran	0.41	U	0.41	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Diethyl phthalate	0.41	U	0.41	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Dimethyl phthalate	0.41	U	0.41	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Di-n-butyl phthalate	0.41	U	0.41	0.072	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Di-n-octyl phthalate	0.41	U	0.41	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Fluoranthene	0.19	J	0.41	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Fluorene	0.011	J	0.41	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Hexachlorobenzene	0.041	U	0.041	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Hexachlorobutadiene	0.083	U	0.083	0.0087	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Hexachlorocyclopentadiene	0.41	U	0.41	0.036	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Hexachloroethane	0.041	U	0.041	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Indeno[1,2,3-cd]pyrene	0.099		0.041	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Isophorone	0.17	U	0.17	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Naphthalene	0.019	J	0.41	0.0071	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Nitrobenzene	0.041	U	0.041	0.0099	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
N-Nitrosodi-n-propylamine	0.041	U	0.041	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
N-Nitrosodiphenylamine	0.41	U	0.41	0.0079	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Pentachlorophenol	0.33	U	0.33	0.084	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Phenanthrene	0.15	J	0.41	0.0072	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Phenol	0.41	U	0.41	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1
Pyrene	0.24	J	0.41	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 06:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 137	07/11/19 08:56	07/12/19 06:28	1
2-Fluorobiphenyl	69		29 - 107	07/11/19 08:56	07/12/19 06:28	1
2-Fluorophenol (Surr)	65		20 - 115	07/11/19 08:56	07/12/19 06:28	1
Nitrobenzene-d5 (Surr)	66		25 - 113	07/11/19 08:56	07/12/19 06:28	1
Phenol-d5 (Surr)	64		28 - 109	07/11/19 08:56	07/12/19 06:28	1
Terphenyl-d14 (Surr)	85		27 - 123	07/11/19 08:56	07/12/19 06:28	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0083	U	0.0083	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
4,4'-DDE	0.0083	U	0.0083	0.00098	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
4,4'-DDT	0.0083	U	0.0083	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Aldrin	0.0083	U	0.0083	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
alpha-BHC	0.0025	U	0.0025	0.00084	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
beta-BHC	0.0025	U	0.0025	0.00093	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Chlordane (n.o.s.)	0.083	U	0.083	0.020	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
cis-Chlordane	0.0083	U	0.0083	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
delta-BHC	0.0025	U	0.0025	0.00051	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Dieldrin	0.0025	U	0.0025	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 80.7

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0083	U	0.0083	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Endosulfan II	0.0083	U	0.0083	0.0021	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Endosulfan sulfate	0.0083	U	0.0083	0.0010	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Endrin	0.0083	U	0.0083	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Endrin aldehyde	0.0083	U	0.0083	0.0020	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Endrin ketone	0.0083	U	0.0083	0.0016	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
gamma-BHC (Lindane)	0.0025	U	0.0025	0.00077	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Heptachlor	0.0083	U	0.0083	0.00098	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Heptachlor epoxide	0.0083	U	0.0083	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Methoxychlor	0.0083	U	0.0083	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Toxaphene	0.083	U	0.083	0.030	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
trans-Chlordane	0.0083	U	0.0083	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	3467	*	49 - 150				07/11/19 08:46	07/12/19 12:07	1
DCB Decachlorobiphenyl	3018	*	49 - 150				07/11/19 08:46	07/12/19 12:07	1
Tetrachloro-m-xylene	78		47 - 150				07/11/19 08:46	07/12/19 12:07	1
Tetrachloro-m-xylene	79		47 - 150				07/11/19 08:46	07/12/19 12:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1221	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1232	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1242	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1248	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1254	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1260	0.062	J	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor-1262	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Aroclor 1268	0.083	U	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Polychlorinated biphenyls, Total	0.062	J	0.083	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		53 - 150				07/11/19 08:38	07/12/19 14:56	1
DCB Decachlorobiphenyl	104		53 - 150				07/11/19 08:38	07/12/19 14:56	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7990		24.0	8.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Antimony	2.2		1.2	0.35	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Arsenic	51.7		1.2	0.39	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Barium	526		2.4	0.80	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Beryllium	0.54		0.48	0.19	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Cadmium	2.5		1.2	0.40	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Calcium	29500		120	35.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Chromium	19.4		2.4	0.72	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Cobalt	18.7		2.4	0.72	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Copper	130		2.4	0.69	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Iron	62200		72.1	25.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Lead	933		0.72	0.23	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 80.7

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	6140		120	33.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Manganese	345		4.8	1.5	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Nickel	23.4		2.4	0.78	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Potassium	1260		120	43.3	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Selenium	17.9		6.0	0.35	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Silver	1.2	U	1.2	0.74	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Sodium	311		120	37.6	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Thallium	0.83		0.48	0.15	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Vanadium	30.4		2.4	0.68	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20
Zinc	1180		9.6	4.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:34	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.86		0.019	0.011	mg/Kg	☼	07/12/19 05:06	07/12/19 09:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.5	U	2.5	0.90	mg/Kg	☼	07/15/19 08:06	07/15/19 14:03	1
Percent Moisture	19.3		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	80.7		1.0	1.0	%			07/14/19 02:11	1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.97	U *	0.97	0.23	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,1,2,2-Tetrachloroethane	0.97	U	0.97	0.21	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.97	U	0.97	0.29	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,1,2-Trichloroethane	0.97	U	0.97	0.17	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,1-Dichloroethane	0.97	U	0.97	0.20	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,1-Dichloroethene	0.97	U	0.97	0.22	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,2,3-Trichlorobenzene	0.97	U	0.97	0.18	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,2,4-Trichlorobenzene	0.97	U	0.97	0.35	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,2-Dibromo-3-Chloropropane	0.97	U	0.97	0.45	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,2-Dichlorobenzene	0.97	U	0.97	0.14	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,2-Dichloroethane	0.97	U	0.97	0.29	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,2-Dichloropropane	0.97	U	0.97	0.41	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,3-Dichlorobenzene	0.97	U	0.97	0.15	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,4-Dichlorobenzene	0.97	U	0.97	0.22	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
1,4-Dioxane	19	U	19	8.9	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
2-Butanone (MEK)	4.9	U	4.9	2.6	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
2-Hexanone	4.9	U	4.9	1.7	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
4-Methyl-2-pentanone (MIBK)	4.9	U	4.9	1.5	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Acetone	5.8	U	5.8	5.6	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Benzene	0.97	U	0.97	0.25	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Bromoform	0.97	U	0.97	0.41	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Bromomethane	0.97	U	0.97	0.46	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Carbon disulfide	0.97	U	0.97	0.26	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.97	U	0.97	0.38	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Chlorobenzene	0.97	U	0.97	0.17	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Chlorobromomethane	0.97	U	0.97	0.27	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Chlorodibromomethane	0.97	U	0.97	0.19	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Chloroethane	0.97	U	0.97	0.51	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Chloroform	0.97	U	0.97	0.31	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Chloromethane	0.97	U	0.97	0.42	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
cis-1,2-Dichloroethene	0.97	U	0.97	0.15	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
cis-1,3-Dichloropropene	0.97	U	0.97	0.27	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Cyclohexane	0.97	U	0.97	0.21	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Dichlorobromomethane	0.97	U	0.97	0.25	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Dichlorodifluoromethane	0.97	U	0.97	0.33	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Ethylbenzene	0.97	U	0.97	0.19	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Ethylene Dibromide	0.97	U	0.97	0.17	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Isopropylbenzene	0.97	U	0.97	0.12	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Methyl acetate	4.9	U	4.9	4.2	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Methyl tert-butyl ether	0.97	U *	0.97	0.12	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Methylcyclohexane	0.97	U	0.97	0.48	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Methylene Chloride	0.97	U	0.97	0.45	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
m-Xylene & p-Xylene	0.97	U	0.97	0.17	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
o-Xylene	0.97	U	0.97	0.19	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Styrene	0.97	U	0.97	0.27	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Tetrachloroethene	0.16	J	0.97	0.14	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Toluene	0.97	U	0.97	0.23	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
trans-1,2-Dichloroethene	0.97	U	0.97	0.24	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
trans-1,3-Dichloropropene	0.97	U	0.97	0.26	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Trichloroethene	0.97	U	0.97	0.14	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Trichlorofluoromethane	0.97	U	0.97	0.39	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1
Vinyl chloride	0.97	U	0.97	0.53	mg/Kg	☼	07/11/19 08:22	07/12/19 16:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		78 - 135	07/11/19 08:22	07/12/19 16:06	1
4-Bromofluorobenzene	97		67 - 126	07/11/19 08:22	07/12/19 16:06	1
Dibromofluoromethane (Surr)	118		61 - 149	07/11/19 08:22	07/12/19 16:06	1
Toluene-d8 (Surr)	100		73 - 121	07/11/19 08:22	07/12/19 16:06	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.38	U	0.38	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
1,2,4,5-Tetrachlorobenzene	0.38	U	0.38	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,2'-oxybis[1-chloropropane]	0.38	U	0.38	0.0069	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,3,4,6-Tetrachlorophenol	0.38	U	0.38	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,4,5-Trichlorophenol	0.38	U	0.38	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,4-Dichlorophenol	0.15	U	0.15	0.0080	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,4-Dimethylphenol	0.38	U	0.38	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,4-Dinitrotoluene	0.077	U	0.077	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2,6-Dinitrotoluene	0.077	U	0.077	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2-Chloronaphthalene	0.38	U	0.38	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.38	U	0.38	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2-Methylnaphthalene	0.38	U	0.38	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2-Methylphenol	0.38	U	0.38	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
2-Nitrophenol	0.38	U	0.38	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.057	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
3-Nitroaniline	0.38	U	0.38	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.062	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Bromophenyl phenyl ether	0.38	U	0.38	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Chloro-3-methylphenol	0.38	U	0.38	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Chloroaniline	0.38	U	0.38	0.027	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Chlorophenyl phenyl ether	0.38	U	0.38	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Methylphenol	0.38	U	0.38	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Nitroaniline	0.38	U	0.38	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
4-Nitrophenol	0.77	U	0.77	0.062	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Acenaphthene	0.38	U	0.38	0.028	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Acenaphthylene	0.38	U	0.38	0.0039	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Acetophenone	0.38	U	0.38	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Anthracene	0.38	U	0.38	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Atrazine	0.15	U *	0.15	0.0096	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Benzaldehyde	0.38	U *	0.38	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Benzo[a]anthracene	0.092		0.038	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Benzo[a]pyrene	0.072		0.038	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Benzo[b]fluoranthene	0.084		0.038	0.0098	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Benzo[g,h,i]perylene	0.034 J		0.38	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Benzo[k]fluoranthene	0.038		0.038	0.0074	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Bis(2-chloroethoxy)methane	0.38	U	0.38	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Bis(2-chloroethyl)ether	0.038	U	0.038	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Bis(2-ethylhexyl) phthalate	0.037 J		0.38	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Butyl benzyl phthalate	0.38	U	0.38	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Caprolactam	0.38	U *	0.38	0.023	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Carbazole	0.015 J		0.38	0.0044	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Chrysene	0.089 J		0.38	0.0064	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Dibenz(a,h)anthracene	0.038	U	0.038	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Dibenzofuran	0.38	U	0.38	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Diethyl phthalate	0.38	U	0.38	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Dimethyl phthalate	0.38	U	0.38	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Di-n-butyl phthalate	0.38	U	0.38	0.067	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Di-n-octyl phthalate	0.38	U	0.38	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Fluoranthene	0.14 J		0.38	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Fluorene	0.014 J		0.38	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Hexachlorobenzene	0.038	U	0.038	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Hexachlorobutadiene	0.077	U	0.077	0.0081	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Hexachlorocyclopentadiene	0.38	U	0.38	0.033	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Hexachloroethane	0.038	U	0.038	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Indeno[1,2,3-cd]pyrene	0.045		0.038	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Isophorone	0.15	U	0.15	0.010	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Naphthalene	0.38	U	0.38	0.0066	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Nitrobenzene	0.038	U	0.038	0.0091	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.038	U	0.038	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
N-Nitrosodiphenylamine	0.38	U	0.38	0.0073	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Pentachlorophenol	0.31	U	0.31	0.078	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Phenanthrene	0.13	J	0.38	0.0067	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Phenol	0.38	U	0.38	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1
Pyrene	0.17	J	0.38	0.0094	mg/Kg	☼	07/11/19 08:56	07/12/19 06:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	37		10 - 137	07/11/19 08:56	07/12/19 06:51	1
2-Fluorobiphenyl	52		29 - 107	07/11/19 08:56	07/12/19 06:51	1
2-Fluorophenol (Surr)	48		20 - 115	07/11/19 08:56	07/12/19 06:51	1
Nitrobenzene-d5 (Surr)	48		25 - 113	07/11/19 08:56	07/12/19 06:51	1
Phenol-d5 (Surr)	48		28 - 109	07/11/19 08:56	07/12/19 06:51	1
Terphenyl-d14 (Surr)	56		27 - 123	07/11/19 08:56	07/12/19 06:51	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0076	U	0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
4,4'-DDE	0.0076	U	0.0076	0.00090	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
4,4'-DDT	0.0076	U	0.0076	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Aldrin	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
alpha-BHC	0.0023	U	0.0023	0.00078	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
beta-BHC	0.0023	U	0.0023	0.00086	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Chlordane (n.o.s.)	0.076	U	0.076	0.018	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
cis-Chlordane	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
delta-BHC	0.0023	U	0.0023	0.00047	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Dieldrin	0.0023	U	0.0023	0.00099	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Endosulfan I	0.0076	U	0.0076	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Endosulfan II	0.0076	U	0.0076	0.0020	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Endosulfan sulfate	0.0076	U	0.0076	0.00096	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Endrin	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Endrin aldehyde	0.0076	U	0.0076	0.0018	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Endrin ketone	0.0076	U	0.0076	0.0015	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00071	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Heptachlor	0.0076	U	0.0076	0.00090	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Heptachlor epoxide	0.0076	U	0.0076	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Methoxychlor	0.0076	U	0.0076	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
Toxaphene	0.076	U	0.076	0.028	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1
trans-Chlordane	0.0076	U	0.0076	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	73		49 - 150	07/11/19 08:46	07/12/19 10:41	1
DCB Decachlorobiphenyl	89		49 - 150	07/11/19 08:46	07/12/19 10:41	1
Tetrachloro-m-xylene	71		47 - 150	07/11/19 08:46	07/12/19 10:41	1
Tetrachloro-m-xylene	72		47 - 150	07/11/19 08:46	07/12/19 10:41	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor 1221	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor 1242	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor 1248	0.076	U	0.076	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor 1254	0.076	U	0.076	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor 1260	0.076	U	0.076	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor-1262	0.076	U	0.076	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Aroclor 1268	0.076	U	0.076	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1
Polychlorinated biphenyls, Total	0.076	U	0.076	0.011	mg/Kg	☼	07/11/19 08:38	07/12/19 09:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		53 - 150	07/11/19 08:38	07/12/19 09:29	1
DCB Decachlorobiphenyl	94		53 - 150	07/11/19 08:38	07/12/19 09:29	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10700		21.6	7.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Antimony	1.1	U	1.1	0.32	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Arsenic	4.7		1.1	0.35	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Barium	47.8		2.2	0.72	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Beryllium	0.63		0.43	0.17	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Cadmium	1.1	U	1.1	0.36	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Calcium	1750		108	32.0	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Chromium	22.3		2.2	0.65	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Cobalt	8.7		2.2	0.65	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Copper	20.3		2.2	0.62	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Iron	24600		64.7	22.6	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Lead	17.3		0.65	0.20	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Magnesium	2850		108	30.0	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Manganese	413		4.3	1.3	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Nickel	14.6		2.2	0.70	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Potassium	1270		108	38.8	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Selenium	0.36	J	5.4	0.31	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Silver	1.1	U	1.1	0.67	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Sodium	104	J	108	33.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Thallium	0.15	J	0.43	0.13	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Vanadium	26.0		2.2	0.61	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20
Zinc	53.3		8.6	4.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:36	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.025		0.017	0.010	mg/Kg	☼	07/12/19 05:06	07/12/19 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.3	U	2.3	0.82	mg/Kg	☼	07/15/19 08:06	07/15/19 14:03	1
Percent Moisture	12.5		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	87.5		1.0	1.0	%			07/14/19 02:11	1

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,1,2,2-Tetrachloroethane	1.2	U	1.2	0.25	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	U	1.2	0.35	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,1,2-Trichloroethane	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,1-Dichloroethane	1.2	U	1.2	0.24	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,1-Dichloroethene	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,2,3-Trichlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,2,4-Trichlorobenzene	1.2	U	1.2	0.42	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,2-Dibromo-3-Chloropropane	1.2	U	1.2	0.53	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,2-Dichlorobenzene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,2-Dichloroethane	1.2	U	1.2	0.34	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,2-Dichloropropane	1.2	U	1.2	0.49	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,3-Dichlorobenzene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,4-Dichlorobenzene	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
1,4-Dioxane	23	U	23	11	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
2-Butanone (MEK)	5.8	U	5.8	3.1	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
2-Hexanone	5.8	U	5.8	2.0	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
4-Methyl-2-pentanone (MIBK)	5.8	U	5.8	1.8	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Acetone	7.0	U	7.0	6.6	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Benzene	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Bromoform	1.2	U	1.2	0.49	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Bromomethane	1.2	U	1.2	0.55	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Carbon disulfide	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Carbon tetrachloride	1.2	U	1.2	0.45	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Chlorobenzene	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Chlorobromomethane	1.2	U	1.2	0.33	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Chlorodibromomethane	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Chloroethane	1.2	U	1.2	0.61	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Chloroform	1.2	U	1.2	0.37	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Chloromethane	1.2	U	1.2	0.51	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
cis-1,2-Dichloroethene	1.2	U	1.2	0.18	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
cis-1,3-Dichloropropene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Cyclohexane	1.2	U	1.2	0.26	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Dichlorobromomethane	1.2	U	1.2	0.30	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Dichlorodifluoromethane	1.2	U	1.2	0.39	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Ethylbenzene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Ethylene Dibromide	1.2	U	1.2	0.21	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Isopropylbenzene	1.2	U	1.2	0.15	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Methyl acetate	5.8	U	5.8	5.0	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Methyl tert-butyl ether	1.2	U	1.2	0.15	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Methylcyclohexane	1.2	U	1.2	0.58	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Methylene Chloride	1.2	U	1.2	0.54	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
m-Xylene & p-Xylene	1.2	U	1.2	0.20	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
o-Xylene	1.2	U	1.2	0.23	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Styrene	1.2	U	1.2	0.32	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Tetrachloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Toluene	1.2	U	1.2	0.27	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
trans-1,2-Dichloroethene	1.2	U	1.2	0.29	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
trans-1,3-Dichloropropene	1.2	U	1.2	0.31	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.2	U	1.2	0.17	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Trichlorofluoromethane	1.2	U	1.2	0.47	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Vinyl chloride	1.2	U	1.2	0.63	mg/Kg	☼	07/11/19 08:24	07/15/19 10:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		78 - 135				07/11/19 08:24	07/15/19 10:35	1
4-Bromofluorobenzene	95		67 - 126				07/11/19 08:24	07/15/19 10:35	1
Dibromofluoromethane (Surr)	110		61 - 149				07/11/19 08:24	07/15/19 10:35	1
Toluene-d8 (Surr)	102		73 - 121				07/11/19 08:24	07/15/19 10:35	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,4-Dichlorophenol	0.15	U	0.15	0.0076	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,4-Dimethylphenol	0.36	U	0.36	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,4-Dinitrotoluene	0.073	U	0.073	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2,6-Dinitrotoluene	0.073	U	0.073	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2-Chlorophenol	0.36	U	0.36	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2-Methylnaphthalene	0.034	J	0.36	0.0045	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2-Methylphenol	0.36	U	0.36	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
2-Nitrophenol	0.36	U	0.36	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.054	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
3-Nitroaniline	0.36	U	0.36	0.020	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.059	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Chloroaniline	0.36	U	0.36	0.025	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0057	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Methylphenol	0.012	J	0.36	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
4-Nitrophenol	0.73	U	0.73	0.059	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Acenaphthene	0.081	J	0.36	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Acenaphthylene	0.059	J	0.36	0.0037	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Acetophenone	0.025	J	0.36	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Anthracene	0.25	J	0.36	0.0040	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Atrazine	0.15	U *	0.15	0.0091	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Benzaldehyde	0.030	J *	0.36	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Benzo[a]anthracene	1.3		0.036	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Benzo[a]pyrene	1.2		0.036	0.0096	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Benzo[b]fluoranthene	1.6		0.036	0.0093	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Benzo[g,h,i]perylene	0.84		0.36	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Benzo[k]fluoranthene	0.61		0.036	0.0071	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.0044	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Bis(2-ethylhexyl) phthalate	0.67		0.36	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Butyl benzyl phthalate	0.14	J	0.36	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Caprolactam	0.36	U *	0.36	0.022	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Carbazole	0.12	J	0.36	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Chrysene	1.4		0.36	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Dibenz(a,h)anthracene	0.24		0.036	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Dibenzofuran	0.056	J	0.36	0.0051	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Diethyl phthalate	0.36	U	0.36	0.0052	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Dimethyl phthalate	0.36	U	0.36	0.0044	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Di-n-butyl phthalate	0.36	U	0.36	0.064	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Fluoranthene	1.9		0.36	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Fluorene	0.095	J	0.36	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Hexachlorobenzene	0.036	U	0.036	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Hexachlorobutadiene	0.073	U	0.073	0.0077	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.032	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Hexachloroethane	0.036	U	0.036	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Indeno[1,2,3-cd]pyrene	0.89		0.036	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Isophorone	0.15	U	0.15	0.0095	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Naphthalene	0.074	J	0.36	0.0062	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Nitrobenzene	0.036	U	0.036	0.0087	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.0057	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0069	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Pentachlorophenol	0.29	U	0.29	0.074	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Phenanthrene	1.3		0.36	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Phenol	0.36	U	0.36	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1
Pyrene	2.8		0.36	0.0090	mg/Kg	☼	07/11/19 08:56	07/12/19 04:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	31		10 - 137	07/11/19 08:56	07/12/19 04:32	1
2-Fluorobiphenyl	54		29 - 107	07/11/19 08:56	07/12/19 04:32	1
2-Fluorophenol (Surr)	67		20 - 115	07/11/19 08:56	07/12/19 04:32	1
Nitrobenzene-d5 (Surr)	58		25 - 113	07/11/19 08:56	07/12/19 04:32	1
Phenol-d5 (Surr)	72		28 - 109	07/11/19 08:56	07/12/19 04:32	1
Terphenyl-d14 (Surr)	64		27 - 123	07/11/19 08:56	07/12/19 04:32	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0032	J	0.0073	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
4,4'-DDE	0.015		0.0073	0.00086	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
4,4'-DDT	0.012		0.0073	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Aldrin	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
alpha-BHC	0.0022	U	0.0022	0.00074	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
beta-BHC	0.0022	U	0.0022	0.00082	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Chlordane (n.o.s.)	0.10		0.073	0.018	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
cis-Chlordane	0.018		0.0073	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
delta-BHC	0.0022	U	0.0022	0.00045	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Dieldrin	0.0025	p	0.0022	0.00095	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Endosulfan II	0.0073	U	0.0073	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Endosulfan sulfate	0.0073	U	0.0073	0.00091	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Endrin	0.0073	U	0.0073	0.0010	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Endrin aldehyde	0.0073	U	0.0073	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Endrin ketone	0.0073	U	0.0073	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00067	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Heptachlor	0.0073	U	0.0073	0.00086	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Heptachlor epoxide	0.0073	U	0.0073	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Methoxychlor	0.0073	U	0.0073	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
Toxaphene	0.073	U	0.073	0.026	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1
trans-Chlordane	0.011	p	0.0073	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	272	*	49 - 150	07/11/19 08:46	07/12/19 12:19	1
DCB Decachlorobiphenyl	103		49 - 150	07/11/19 08:46	07/12/19 12:19	1
Tetrachloro-m-xylene	67		47 - 150	07/11/19 08:46	07/12/19 12:19	1
Tetrachloro-m-xylene	69		47 - 150	07/11/19 08:46	07/12/19 12:19	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.073	U	0.073	0.0097	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1221	0.073	U	0.073	0.0097	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1232	0.073	U	0.073	0.0097	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1242	0.073	U	0.073	0.0097	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1248	0.073	U	0.073	0.0097	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1254	0.073	U	0.073	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1260	0.073	U	0.073	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor-1262	0.073	U	0.073	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Aroclor 1268	0.073	U	0.073	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1
Polychlorinated biphenyls, Total	0.073	U	0.073	0.010	mg/Kg	☼	07/11/19 08:38	07/12/19 15:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	96		53 - 150	07/11/19 08:38	07/12/19 15:17	1
DCB Decachlorobiphenyl	94		53 - 150	07/11/19 08:38	07/12/19 15:17	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	9310		21.3	7.3	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Antimony	0.31	J	1.1	0.31	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Arsenic	5.7		1.1	0.34	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Barium	164		2.1	0.71	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Beryllium	0.37	J	0.43	0.17	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Cadmium	0.71	J	1.1	0.36	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Calcium	74200		107	31.7	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Chromium	25.9		2.1	0.64	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Cobalt	6.8		2.1	0.64	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Copper	34.6		2.1	0.61	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Iron	16800		64.0	22.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Lead	307		0.64	0.20	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	29300		107	29.6	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Manganese	292		4.3	1.3	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Nickel	18.2		2.1	0.69	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Potassium	3200		107	38.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Selenium	0.33	J	5.3	0.31	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Silver	1.1	U	1.1	0.66	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Sodium	223		107	33.4	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Thallium	0.17	J	0.43	0.13	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Vanadium	31.7		2.1	0.61	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20
Zinc	254		8.5	4.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:39	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.017	0.010	mg/Kg	☼	07/12/19 05:06	07/12/19 09:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	3.1		2.2	0.78	mg/Kg	☼	07/15/19 08:06	07/15/19 14:46	1
Percent Moisture	8.1		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	91.9		1.0	1.0	%			07/14/19 02:11	1

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 92.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.3	U	1.3	0.31	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,1,2,2-Tetrachloroethane	1.3	U	1.3	0.29	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.3	U	1.3	0.40	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,1,2-Trichloroethane	1.3	U	1.3	0.24	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,1-Dichloroethane	1.3	U	1.3	0.28	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,1-Dichloroethene	1.3	U	1.3	0.30	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,2,3-Trichlorobenzene	1.3	U	1.3	0.24	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,2,4-Trichlorobenzene	1.3	U	1.3	0.48	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,2-Dibromo-3-Chloropropane	1.3	U	1.3	0.62	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,2-Dichlorobenzene	1.3	U	1.3	0.19	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,2-Dichloroethane	1.3	U	1.3	0.40	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,2-Dichloropropane	1.3	U	1.3	0.57	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,3-Dichlorobenzene	1.3	U	1.3	0.21	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,4-Dichlorobenzene	1.3	U	1.3	0.30	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
1,4-Dioxane	27	U	27	12	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
2-Butanone (MEK)	6.7	U	6.7	3.6	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
2-Hexanone	6.7	U	6.7	2.3	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
4-Methyl-2-pentanone (MIBK)	6.7	U	6.7	2.1	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Acetone	8.4		8.0	7.7	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Benzene	1.3	U	1.3	0.35	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Bromoform	1.3	U	1.3	0.57	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Bromomethane	1.3	U	1.3	0.64	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Carbon disulfide	1.3	U	1.3	0.36	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 92.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.3	U	1.3	0.52	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Chlorobenzene	1.3	U	1.3	0.24	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Chlorobromomethane	1.3	U	1.3	0.38	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Chlorodibromomethane	1.3	U	1.3	0.26	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Chloroethane	1.3	U	1.3	0.70	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Chloroform	1.3	U	1.3	0.43	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Chloromethane	1.3	U	1.3	0.58	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
cis-1,2-Dichloroethene	1.3	U	1.3	0.20	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
cis-1,3-Dichloropropene	1.3	U	1.3	0.37	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Cyclohexane	1.3	U	1.3	0.30	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Dichlorobromomethane	1.3	U	1.3	0.34	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Dichlorodifluoromethane	1.3	U	1.3	0.45	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Ethylbenzene	1.3	U	1.3	0.27	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Ethylene Dibromide	1.3	U	1.3	0.24	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Isopropylbenzene	1.3	U	1.3	0.17	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Methyl acetate	6.7	U	6.7	5.8	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Methyl tert-butyl ether	1.3	U	1.3	0.17	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Methylcyclohexane	1.3	U	1.3	0.67	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Methylene Chloride	1.3	U	1.3	0.62	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
m-Xylene & p-Xylene	1.3	U	1.3	0.23	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
o-Xylene	1.3	U	1.3	0.26	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Styrene	1.3	U	1.3	0.37	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Tetrachloroethene	1.3	U	1.3	0.19	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Toluene	1.3	U	1.3	0.31	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
trans-1,2-Dichloroethene	1.3	U	1.3	0.33	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
trans-1,3-Dichloropropene	1.3	U	1.3	0.36	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Trichloroethene	1.3	U	1.3	0.19	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Trichlorofluoromethane	1.3	U	1.3	0.54	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1
Vinyl chloride	1.3	U	1.3	0.73	mg/Kg	☼	07/11/19 08:25	07/15/19 15:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		78 - 135	07/11/19 08:25	07/15/19 15:57	1
4-Bromofluorobenzene	101		67 - 126	07/11/19 08:25	07/15/19 15:57	1
Dibromofluoromethane (Surr)	109		61 - 149	07/11/19 08:25	07/15/19 15:57	1
Toluene-d8 (Surr)	99		73 - 121	07/11/19 08:25	07/15/19 15:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.36	U	0.36	0.0048	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
1,2,4,5-Tetrachlorobenzene	0.36	U	0.36	0.0047	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,2'-oxybis[1-chloropropane]	0.36	U	0.36	0.0065	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,3,4,6-Tetrachlorophenol	0.36	U	0.36	0.024	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,4,5-Trichlorophenol	0.36	U	0.36	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,4,6-Trichlorophenol	0.14	U	0.14	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,4-Dichlorophenol	0.14	U	0.14	0.0076	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,4-Dimethylphenol	0.36	U	0.36	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,4-Dinitrophenol	0.29	U	0.29	0.18	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,4-Dinitrotoluene	0.072	U	0.072	0.018	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2,6-Dinitrotoluene	0.072	U	0.072	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2-Chloronaphthalene	0.36	U	0.36	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.36	U	0.36	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2-Methylnaphthalene	0.043	J	0.36	0.0045	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2-Methylphenol	0.36	U	0.36	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
2-Nitrophenol	0.36	U	0.36	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
3,3'-Dichlorobenzidine	0.14	U	0.14	0.054	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
3-Nitroaniline	0.36	U	0.36	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4,6-Dinitro-2-methylphenol	0.29	U	0.29	0.058	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Bromophenyl phenyl ether	0.36	U	0.36	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Chloro-3-methylphenol	0.36	U	0.36	0.0059	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Chloroaniline	0.36	U	0.36	0.025	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Chlorophenyl phenyl ether	0.36	U	0.36	0.0056	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Methylphenol	0.023	J	0.36	0.0061	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Nitroaniline	0.36	U	0.36	0.013	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
4-Nitrophenol	0.72	U	0.72	0.058	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Acenaphthene	0.067	J	0.36	0.026	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Acenaphthylene	0.32	J	0.36	0.0037	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Acetophenone	0.015	J	0.36	0.0058	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Anthracene	0.28	J	0.36	0.0040	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Atrazine	0.14	U *	0.14	0.0090	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Benzaldehyde	0.037	J *	0.36	0.016	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Benzo[a]anthracene	2.9		0.036	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Benzo[a]pyrene	3.5		0.036	0.0095	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Benzo[b]fluoranthene	5.1		0.036	0.0093	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Benzo[g,h,i]perylene	2.1		0.36	0.011	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Benzo[k]fluoranthene	2.0		0.036	0.0070	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Bis(2-chloroethoxy)methane	0.36	U	0.36	0.012	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Bis(2-chloroethyl)ether	0.036	U	0.036	0.0043	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Bis(2-ethylhexyl) phthalate	0.44		0.36	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Butyl benzyl phthalate	0.053	J	0.36	0.017	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Caprolactam	0.36	U *	0.36	0.021	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Carbazole	0.30	J	0.36	0.0042	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Chrysene	3.8		0.36	0.0060	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Dibenz(a,h)anthracene	0.71		0.036	0.015	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Dibenzofuran	0.083	J	0.36	0.0050	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Diethyl phthalate	0.36	U	0.36	0.0052	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Dimethyl phthalate	0.36	U	0.36	0.0043	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Di-n-butyl phthalate	0.36	U	0.36	0.063	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Di-n-octyl phthalate	0.36	U	0.36	0.019	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Fluoranthene	4.1		0.36	0.0046	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Fluorene	0.11	J	0.36	0.0049	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Hexachlorobenzene	0.036	U	0.036	0.0052	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Hexachlorobutadiene	0.072	U	0.072	0.0076	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Hexachlorocyclopentadiene	0.36	U	0.36	0.031	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Hexachloroethane	0.036	U	0.036	0.0055	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Indeno[1,2,3-cd]pyrene	2.6		0.036	0.014	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Isophorone	0.14	U	0.14	0.0094	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Naphthalene	0.11	J	0.36	0.0062	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Nitrobenzene	0.036	U	0.036	0.0086	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.036	U	0.036	0.0057	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
N-Nitrosodiphenylamine	0.36	U	0.36	0.0068	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Pentachlorophenol	0.29	U	0.29	0.073	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Phenanthrene	2.2		0.36	0.0063	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Phenol	0.36	U	0.36	0.0053	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1
Pyrene	5.7		0.36	0.0089	mg/Kg	☼	07/11/19 08:56	07/12/19 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	33		10 - 137	07/11/19 08:56	07/12/19 04:55	1
2-Fluorobiphenyl	54		29 - 107	07/11/19 08:56	07/12/19 04:55	1
2-Fluorophenol (Surr)	59		20 - 115	07/11/19 08:56	07/12/19 04:55	1
Nitrobenzene-d5 (Surr)	55		25 - 113	07/11/19 08:56	07/12/19 04:55	1
Phenol-d5 (Surr)	60		28 - 109	07/11/19 08:56	07/12/19 04:55	1
Terphenyl-d14 (Surr)	55		27 - 123	07/11/19 08:56	07/12/19 04:55	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0072	U	0.0072	0.0012	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
4,4'-DDE	0.0072	U	0.0072	0.00085	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
4,4'-DDT	0.0077		0.0072	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Aldrin	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
alpha-BHC	0.0022	U	0.0022	0.00073	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
beta-BHC	0.0022	U	0.0022	0.00081	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Chlordane (n.o.s.)	0.072	U	0.072	0.017	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
cis-Chlordane	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
delta-BHC	0.0022	U	0.0022	0.00044	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Dieldrin	0.0022	U	0.0022	0.00094	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Endosulfan I	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Endosulfan II	0.0072	U	0.0072	0.0019	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Endosulfan sulfate	0.0072	U	0.0072	0.00091	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Endrin	0.0072	U	0.0072	0.0010	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Endrin aldehyde	0.0072	U	0.0072	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Endrin ketone	0.0072	U	0.0072	0.0014	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00067	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Heptachlor	0.0072	U	0.0072	0.00085	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Heptachlor epoxide	0.0072	U	0.0072	0.0011	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Methoxychlor	0.0072	U	0.0072	0.0017	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
Toxaphene	0.072	U	0.072	0.026	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1
trans-Chlordane	0.0072	U	0.0072	0.0013	mg/Kg	☼	07/11/19 08:46	07/12/19 12:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		49 - 150	07/11/19 08:46	07/12/19 12:32	1
DCB Decachlorobiphenyl	97		49 - 150	07/11/19 08:46	07/12/19 12:32	1
Tetrachloro-m-xylene	68		47 - 150	07/11/19 08:46	07/12/19 12:32	1
Tetrachloro-m-xylene	66		47 - 150	07/11/19 08:46	07/12/19 12:32	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.072	U	0.072	0.0096	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor 1221	0.072	U	0.072	0.0096	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1

Eurofins TestAmerica, Edison

Client Sample Results

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Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 92.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.072	U	0.072	0.0096	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor 1242	0.072	U	0.072	0.0096	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor 1248	0.072	U	0.072	0.0096	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor 1254	0.072	U	0.072	0.0099	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor 1260	0.072	U	0.072	0.0099	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor-1262	0.072	U	0.072	0.0099	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Aroclor 1268	0.072	U	0.072	0.0099	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1
Polychlorinated biphenyls, Total	0.072	U	0.072	0.0099	mg/Kg	☼	07/11/19 08:38	07/12/19 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	81		53 - 150	07/11/19 08:38	07/12/19 15:38	1
DCB Decachlorobiphenyl	84		53 - 150	07/11/19 08:38	07/12/19 15:38	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	3460		21.0	7.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Antimony	1.0	U	1.0	0.31	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Arsenic	3.4		1.0	0.34	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Barium	85.5		2.1	0.70	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Beryllium	0.42	U	0.42	0.17	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Cadmium	0.75	J	1.0	0.35	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Calcium	261000		105	31.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Chromium	13.2		2.1	0.63	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Cobalt	2.9		2.1	0.63	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Copper	21.6		2.1	0.60	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Iron	7190		63.0	22.0	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Lead	436		0.63	0.20	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Magnesium	26300		105	29.2	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Manganese	190		4.2	1.3	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Nickel	12.8		2.1	0.68	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Potassium	1220		105	37.8	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Selenium	5.2	U	5.2	0.30	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Silver	1.0	U	1.0	0.65	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Sodium	122		105	32.8	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Thallium	0.42	U	0.42	0.13	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Vanadium	16.3		2.1	0.60	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20
Zinc	115		8.4	4.1	mg/Kg	☼	07/11/19 10:31	07/11/19 19:41	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.017	0.010	mg/Kg	☼	07/12/19 05:06	07/12/19 09:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.2	U	2.2	0.77	mg/Kg	☼	07/15/19 08:06	07/15/19 13:17	1
Percent Moisture	7.5		1.0	1.0	%			07/14/19 02:11	1
Percent Solids	92.5		1.0	1.0	%			07/14/19 02:11	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	U	0.0012	0.00027	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.00025	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0012	U	0.0012	0.00035	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,1,2-Trichloroethane	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,1-Dichloroethane	0.0012	U	0.0012	0.00024	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,1-Dichloroethene	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,2,3-Trichlorobenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.00042	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0012	0.00054	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,2-Dichlorobenzene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,2-Dichloroethane	0.0012	U	0.0012	0.00035	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,2-Dichloropropane	0.0012	U	0.0012	0.00050	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,3-Dichlorobenzene	0.0012	U	0.0012	0.00019	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,4-Dichlorobenzene	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
1,4-Dioxane	0.023	U	0.023	0.011	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
2-Butanone (MEK)	0.0059	U	0.0059	0.0032	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
2-Hexanone	0.0059	U	0.0059	0.0020	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
4-Methyl-2-pentanone (MIBK)	0.0059	U	0.0059	0.0018	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Acetone	0.0070	U	0.0070	0.0067	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Benzene	0.0012	U	0.0012	0.00030	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Bromoform	0.0012	U	0.0012	0.00050	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Bromomethane	0.0012	U	0.0012	0.00056	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Carbon disulfide	0.0012	U	0.0012	0.00031	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Carbon tetrachloride	0.0012	U	0.0012	0.00045	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Chlorobenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Chlorobromomethane	0.0012	U	0.0012	0.00033	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Chlorodibromomethane	0.0012	U	0.0012	0.00023	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Chloroethane	0.0012	U	0.0012	0.00061	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Chloroform	0.0012	U	0.0012	0.00037	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Chloromethane	0.0012	U	0.0012	0.00051	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
cis-1,2-Dichloroethene	0.0012	U	0.0012	0.00018	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
cis-1,3-Dichloropropene	0.0012	U	0.0012	0.00032	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Cyclohexane	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Dichlorobromomethane	0.0012	U	0.0012	0.00030	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Dichlorodifluoromethane	0.0012	U	0.0012	0.00040	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Ethylbenzene	0.0012	U	0.0012	0.00023	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Ethylene Dibromide	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Isopropylbenzene	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Methyl acetate	0.0059	U	0.0059	0.0050	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Methyl tert-butyl ether	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Methylcyclohexane	0.0012	U	0.0012	0.00058	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Methylene Chloride	0.00092	J	0.0012	0.00054	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
m-Xylene & p-Xylene	0.0012	U	0.0012	0.00020	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
o-Xylene	0.0012	U	0.0012	0.00023	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Styrene	0.0012	U	0.0012	0.00033	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Tetrachloroethene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Toluene	0.0012	U	0.0012	0.00027	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
trans-1,2-Dichloroethene	0.0012	U	0.0012	0.00029	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
trans-1,3-Dichloropropene	0.0012	U	0.0012	0.00031	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1

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Client Sample Results

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Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Trichlorofluoromethane	0.0012	U	0.0012	0.00048	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Vinyl chloride	0.0012	U	0.0012	0.00064	mg/Kg	☼	07/13/19 07:45	07/18/19 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		78 - 135				07/13/19 07:45	07/18/19 02:16	1
4-Bromofluorobenzene	101		67 - 126				07/13/19 07:45	07/18/19 02:16	1
Dibromofluoromethane (Surr)	100		61 - 149				07/13/19 07:45	07/18/19 02:16	1
Toluene-d8 (Surr)	102		73 - 121				07/13/19 07:45	07/18/19 02:16	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.39	U	0.39	0.0051	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
1,2,4,5-Tetrachlorobenzene	0.39	U	0.39	0.0051	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	0.0070	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,3,4,6-Tetrachlorophenol	0.39	U	0.39	0.026	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,4,5-Trichlorophenol	0.39	U	0.39	0.013	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,4,6-Trichlorophenol	0.16	U	0.16	0.020	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,4-Dichlorophenol	0.16	U	0.16	0.0082	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,4-Dimethylphenol	0.39	U	0.39	0.017	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,4-Dinitrophenol	0.31	U	0.31	0.19	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,4-Dinitrotoluene	0.078	U	0.078	0.020	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2,6-Dinitrotoluene	0.078	U	0.078	0.013	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2-Chloronaphthalene	0.39	U	0.39	0.018	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2-Chlorophenol	0.39	U	0.39	0.0054	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2-Methylnaphthalene	0.39	U	0.39	0.0048	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2-Methylphenol	0.39	U	0.39	0.0062	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2-Nitroaniline	0.39	U	0.39	0.014	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
2-Nitrophenol	0.39	U	0.39	0.012	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
3,3'-Dichlorobenzidine	0.16	U	0.16	0.058	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
3-Nitroaniline	0.39	U	0.39	0.021	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4,6-Dinitro-2-methylphenol	0.31	U	0.31	0.063	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Bromophenyl phenyl ether	0.39	U	0.39	0.0050	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Chloro-3-methylphenol	0.39	U	0.39	0.0064	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Chloroaniline	0.39	U	0.39	0.027	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Chlorophenyl phenyl ether	0.39	U	0.39	0.0061	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Methylphenol	0.39	U	0.39	0.0066	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Nitroaniline	0.39	U	0.39	0.014	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
4-Nitrophenol	0.78	U	0.78	0.063	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Acenaphthene	0.39	U	0.39	0.028	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Acenaphthylene	0.39	U	0.39	0.0040	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Acetophenone	0.39	U	0.39	0.0062	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Anthracene	0.39	U	0.39	0.0043	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Atrazine	0.16	U	0.16	0.0098	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Benzaldehyde	0.39	U	0.39	0.017	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Benzo[a]anthracene	0.024	J	0.039	0.013	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Benzo[a]pyrene	0.015	J	0.039	0.010	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Benzo[b]fluoranthene	0.018	J	0.039	0.010	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Benzo[g,h,i]perylene	0.39	U	0.39	0.011	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Benzo[k]fluoranthene	0.0081	J	0.039	0.0076	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.39	U	0.39	0.013	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Bis(2-chloroethyl)ether	0.039	U	0.039	0.0047	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Bis(2-ethylhexyl) phthalate	0.39	U	0.39	0.020	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Butyl benzyl phthalate	0.39	U	0.39	0.018	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Caprolactam	0.39	U	0.39	0.023	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Carbazole	0.39	U	0.39	0.0045	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Chrysene	0.021	J	0.39	0.0065	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Dibenz(a,h)anthracene	0.039	U	0.039	0.017	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Dibenzofuran	0.39	U	0.39	0.0054	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Diethyl phthalate	0.39	U	0.39	0.0056	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Dimethyl phthalate	0.39	U	0.39	0.0047	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Di-n-butyl phthalate	0.39	U	0.39	0.068	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Di-n-octyl phthalate	0.39	U	0.39	0.020	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Fluoranthene	0.047	J	0.39	0.0050	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Fluorene	0.39	U	0.39	0.0052	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Hexachlorobenzene	0.039	U	0.039	0.0057	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Hexachlorobutadiene	0.078	U	0.078	0.0082	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Hexachlorocyclopentadiene	0.39	U *	0.39	0.034	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Hexachloroethane	0.039	U	0.039	0.0060	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Indeno[1,2,3-cd]pyrene	0.039	U	0.039	0.015	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Isophorone	0.16	U	0.16	0.010	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Naphthalene	0.39	U	0.39	0.0067	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Nitrobenzene	0.039	U	0.039	0.0093	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
N-Nitrosodi-n-propylamine	0.039	U	0.039	0.0062	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
N-Nitrosodiphenylamine	0.39	U	0.39	0.0074	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Pentachlorophenol	0.31	U	0.31	0.079	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Phenanthrene	0.055	J	0.39	0.0068	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Phenol	0.39	U	0.39	0.0057	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1
Pyrene	0.042	J	0.39	0.0096	mg/Kg	☼	07/13/19 11:25	07/14/19 06:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		10 - 137	07/13/19 11:25	07/14/19 06:56	1
2-Fluorobiphenyl	47		29 - 107	07/13/19 11:25	07/14/19 06:56	1
2-Fluorophenol (Surr)	50		20 - 115	07/13/19 11:25	07/14/19 06:56	1
Nitrobenzene-d5 (Surr)	58		25 - 113	07/13/19 11:25	07/14/19 06:56	1
Phenol-d5 (Surr)	56		28 - 109	07/13/19 11:25	07/14/19 06:56	1
Terphenyl-d14 (Surr)	46		27 - 123	07/13/19 11:25	07/14/19 06:56	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0078	U	0.0078	0.0013	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
4,4'-DDE	0.0078	U	0.0078	0.00092	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
4,4'-DDT	0.0078	U	0.0078	0.0014	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Aldrin	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
alpha-BHC	0.0023	U	0.0023	0.00080	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
beta-BHC	0.0023	U	0.0023	0.00088	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Chlordane (n.o.s.)	0.078	U	0.078	0.019	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
cis-Chlordane	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
delta-BHC	0.0023	U	0.0023	0.00048	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Dieldrin	0.0023	U	0.0023	0.0010	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Endosulfan II	0.0078	U	0.0078	0.0020	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Endosulfan sulfate	0.0078	U	0.0078	0.00098	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Endrin	0.0078	U	0.0078	0.0011	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Endrin aldehyde	0.0078	U	0.0078	0.0018	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Endrin ketone	0.0078	U	0.0078	0.0015	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
gamma-BHC (Lindane)	0.0023	U	0.0023	0.00073	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Heptachlor	0.0078	U	0.0078	0.00092	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Heptachlor epoxide	0.0078	U	0.0078	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Methoxychlor	0.0078	U	0.0078	0.0018	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
Toxaphene	0.078	U	0.078	0.028	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1
trans-Chlordane	0.0078	U	0.0078	0.0014	mg/Kg	☼	07/15/19 09:15	07/16/19 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		49 - 150	07/15/19 09:15	07/16/19 18:55	1
DCB Decachlorobiphenyl	91		49 - 150	07/15/19 09:15	07/16/19 18:55	1
Tetrachloro-m-xylene	99		47 - 150	07/15/19 09:15	07/16/19 18:55	1
Tetrachloro-m-xylene	89		47 - 150	07/15/19 09:15	07/16/19 18:55	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.078	U	0.078	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1221	0.078	U	0.078	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1232	0.078	U	0.078	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1242	0.078	U	0.078	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1248	0.078	U	0.078	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1254	0.078	U	0.078	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1260	0.078	U	0.078	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor-1262	0.078	U	0.078	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Aroclor 1268	0.078	U	0.078	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1
Polychlorinated biphenyls, Total	0.078	U	0.078	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	115		53 - 150	07/15/19 08:59	07/16/19 17:00	1
DCB Decachlorobiphenyl	118		53 - 150	07/15/19 08:59	07/16/19 17:00	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7520		21.7	7.4	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Antimony	1.1	U	1.1	0.32	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Arsenic	1.9		1.1	0.35	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Barium	36.7		2.2	0.72	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Beryllium	0.51		0.43	0.17	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Cadmium	1.1	U	1.1	0.36	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Calcium	4870		108	32.2	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Chromium	20.7		2.2	0.65	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Cobalt	9.5		2.2	0.65	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Copper	20.8		2.2	0.62	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Iron	17000		65.1	22.8	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Lead	4.6		0.65	0.21	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	3720		108	30.2	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Manganese	161		4.3	1.3	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Nickel	14.0		2.2	0.71	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Potassium	2300		108	39.0	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Selenium	5.4	U	5.4	0.31	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Silver	1.1	U	1.1	0.67	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Sodium	310		108	34.0	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Thallium	0.18	J	0.43	0.14	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Vanadium	25.3		2.2	0.62	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20
Zinc	30.3		8.7	4.2	mg/Kg	☼	07/15/19 05:13	07/15/19 17:01	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.022		0.019	0.011	mg/Kg	☼	07/16/19 04:41	07/16/19 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.3	U	2.3	0.84	mg/Kg	☼	07/17/19 08:37	07/17/19 13:56	1
Percent Moisture	14.6		1.0	1.0	%			07/16/19 10:22	1
Percent Solids	85.4		1.0	1.0	%			07/16/19 10:22	1

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0012	U	0.0012	0.00027	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,1,2,2-Tetrachloroethane	0.0012	U	0.0012	0.00025	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0012	U	0.0012	0.00035	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,1,2-Trichloroethane	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,1-Dichloroethane	0.0012	U	0.0012	0.00024	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,1-Dichloroethene	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,2,3-Trichlorobenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,2,4-Trichlorobenzene	0.0012	U	0.0012	0.00042	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,2-Dibromo-3-Chloropropane	0.0012	U	0.0012	0.00053	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,2-Dichlorobenzene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,2-Dichloroethane	0.0012	U	0.0012	0.00034	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,2-Dichloropropane	0.0012	U	0.0012	0.00049	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,3-Dichlorobenzene	0.0012	U	0.0012	0.00018	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,4-Dichlorobenzene	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
1,4-Dioxane	0.023	U	0.023	0.011	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
2-Butanone (MEK)	0.0058	U	0.0058	0.0031	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
2-Hexanone	0.0058	U	0.0058	0.0020	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
4-Methyl-2-pentanone (MIBK)	0.0058	U	0.0058	0.0018	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Acetone	0.0070	U	0.0070	0.0066	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Benzene	0.0012	U	0.0012	0.00030	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Bromoform	0.0012	U	0.0012	0.00049	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Bromomethane	0.0012	U	0.0012	0.00055	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Carbon disulfide	0.0012	U	0.0012	0.00031	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 89.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	0.0012	U	0.0012	0.00045	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Chlorobenzene	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Chlorobromomethane	0.0012	U	0.0012	0.00033	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Chlorodibromomethane	0.0012	U	0.0012	0.00023	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Chloroethane	0.0012	U	0.0012	0.00061	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Chloroform	0.0012	U	0.0012	0.00037	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Chloromethane	0.0012	U	0.0012	0.00050	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
cis-1,2-Dichloroethene	0.0012	U	0.0012	0.00018	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
cis-1,3-Dichloropropene	0.0012	U	0.0012	0.00032	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Cyclohexane	0.0012	U	0.0012	0.00026	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Dichlorobromomethane	0.0012	U	0.0012	0.00030	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Dichlorodifluoromethane	0.0012	U	0.0012	0.00039	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Ethylbenzene	0.0012	U	0.0012	0.00023	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Ethylene Dibromide	0.0012	U	0.0012	0.00021	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Isopropylbenzene	0.0012	U	0.0012	0.00015	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Methyl acetate	0.0058	U	0.0058	0.0050	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Methyl tert-butyl ether	0.0012	U	0.0012	0.00014	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Methylcyclohexane	0.0012	U	0.0012	0.00058	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Methylene Chloride	0.0012	U	0.0012	0.00054	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
m-Xylene & p-Xylene	0.0012	U	0.0012	0.00020	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
o-Xylene	0.0012	U	0.0012	0.00023	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Styrene	0.0012	U	0.0012	0.00032	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Tetrachloroethene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Toluene	0.0012	U	0.0012	0.00027	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
trans-1,2-Dichloroethene	0.0012	U	0.0012	0.00029	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
trans-1,3-Dichloropropene	0.0012	U	0.0012	0.00031	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Trichloroethene	0.0012	U	0.0012	0.00017	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Trichlorofluoromethane	0.0012	U	0.0012	0.00047	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Vinyl chloride	0.0012	U	0.0012	0.00063	mg/Kg	☼	07/13/19 07:46	07/18/19 02:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135				07/13/19 07:46	07/18/19 02:42	1
4-Bromofluorobenzene	95		67 - 126				07/13/19 07:46	07/18/19 02:42	1
Dibromofluoromethane (Surr)	98		61 - 149				07/13/19 07:46	07/18/19 02:42	1
Toluene-d8 (Surr)	100		73 - 121				07/13/19 07:46	07/18/19 02:42	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.37	U	0.37	0.0049	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
1,2,4,5-Tetrachlorobenzene	0.37	U	0.37	0.0048	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,2'-oxybis[1-chloropropane]	0.37	U	0.37	0.0067	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,3,4,6-Tetrachlorophenol	0.37	U	0.37	0.025	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,4,5-Trichlorophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,4,6-Trichlorophenol	0.15	U	0.15	0.019	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,4-Dichlorophenol	0.15	U	0.15	0.0078	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,4-Dimethylphenol	0.37	U	0.37	0.016	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,4-Dinitrophenol	0.30	U	0.30	0.18	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,4-Dinitrotoluene	0.075	U	0.075	0.019	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2,6-Dinitrotoluene	0.075	U	0.075	0.012	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2-Chloronaphthalene	0.37	U	0.37	0.017	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	0.37	U	0.37	0.0052	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2-Methylnaphthalene	0.049	J	0.37	0.0046	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2-Methylphenol	0.37	U	0.37	0.0059	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
2-Nitrophenol	0.37	U	0.37	0.012	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
3,3'-Dichlorobenzidine	0.15	U	0.15	0.056	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
3-Nitroaniline	0.37	U	0.37	0.020	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4,6-Dinitro-2-methylphenol	0.30	U	0.30	0.060	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Bromophenyl phenyl ether	0.37	U	0.37	0.0048	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Chloro-3-methylphenol	0.37	U	0.37	0.0061	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Chloroaniline	0.37	U	0.37	0.026	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Chlorophenyl phenyl ether	0.37	U	0.37	0.0058	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Methylphenol	0.37	U	0.37	0.0063	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Nitroaniline	0.37	U	0.37	0.014	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
4-Nitrophenol	0.75	U	0.75	0.060	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Acenaphthene	0.064	J	0.37	0.027	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Acenaphthylene	0.092	J	0.37	0.0038	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Acetophenone	0.37	U	0.37	0.0059	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Anthracene	0.24	J	0.37	0.0041	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Atrazine	0.15	U	0.15	0.0093	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Benzaldehyde	0.37	U	0.37	0.016	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Benzo[a]anthracene	0.93		0.037	0.013	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Benzo[a]pyrene	0.90		0.037	0.0098	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Benzo[b]fluoranthene	1.3		0.037	0.0095	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Benzo[g,h,i]perylene	0.57		0.37	0.011	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Benzo[k]fluoranthene	0.41		0.037	0.0072	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Bis(2-chloroethoxy)methane	0.37	U	0.37	0.013	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Bis(2-chloroethyl)ether	0.037	U	0.037	0.0045	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Bis(2-ethylhexyl) phthalate	0.071	J	0.37	0.019	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Butyl benzyl phthalate	0.062	J	0.37	0.017	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Caprolactam	0.37	U	0.37	0.022	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Carbazole	0.14	J	0.37	0.0043	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Chrysene	0.93		0.37	0.0062	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Dibenz(a,h)anthracene	0.17		0.037	0.016	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Dibenzofuran	0.064	J	0.37	0.0052	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Diethyl phthalate	0.37	U	0.37	0.0053	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Dimethyl phthalate	0.37	U	0.37	0.0044	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Di-n-butyl phthalate	0.37	U	0.37	0.065	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Di-n-octyl phthalate	0.37	U	0.37	0.020	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Fluoranthene	1.7		0.37	0.0048	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Fluorene	0.099	J	0.37	0.0050	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Hexachlorobenzene	0.037	U	0.037	0.0054	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Hexachlorobutadiene	0.075	U	0.075	0.0078	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Hexachlorocyclopentadiene	0.37	U *	0.37	0.032	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Hexachloroethane	0.037	U	0.037	0.0057	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Indeno[1,2,3-cd]pyrene	0.66		0.037	0.014	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Isophorone	0.15	U	0.15	0.0097	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Naphthalene	0.092	J	0.37	0.0064	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Nitrobenzene	0.037	U	0.037	0.0089	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	0.037	U	0.037	0.0059	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
N-Nitrosodiphenylamine	0.37	U	0.37	0.0071	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Pentachlorophenol	0.30	U	0.30	0.076	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Phenanthrene	1.1		0.37	0.0065	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Phenol	0.37	U	0.37	0.0055	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1
Pyrene	1.6		0.37	0.0092	mg/Kg	☼	07/13/19 11:25	07/14/19 10:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	6	*	10 - 137	07/13/19 11:25	07/14/19 10:01	1
2-Fluorobiphenyl	38		29 - 107	07/13/19 11:25	07/14/19 10:01	1
2-Fluorophenol (Surr)	31		20 - 115	07/13/19 11:25	07/14/19 10:01	1
Nitrobenzene-d5 (Surr)	46		25 - 113	07/13/19 11:25	07/14/19 10:01	1
Phenol-d5 (Surr)	41		28 - 109	07/13/19 11:25	07/14/19 10:01	1
Terphenyl-d14 (Surr)	36		27 - 123	07/13/19 11:25	07/14/19 10:01	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0023	J p	0.0075	0.0013	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
4,4'-DDE	0.018		0.0075	0.00088	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
4,4'-DDT	0.021		0.0075	0.0014	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Aldrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
alpha-BHC	0.0022	U	0.0022	0.00076	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
beta-BHC	0.0022	U	0.0022	0.00084	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Chlordane (n.o.s.)	0.14		0.075	0.018	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
cis-Chlordane	0.020		0.0075	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
delta-BHC	0.0022	U	0.0022	0.00046	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Dieldrin	0.012		0.0022	0.00097	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Endosulfan I	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Endosulfan II	0.0075	U	0.0075	0.0019	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Endosulfan sulfate	0.0075	U	0.0075	0.00094	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Endrin	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Endrin aldehyde	0.0075	U	0.0075	0.0018	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Endrin ketone	0.0075	U	0.0075	0.0015	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
gamma-BHC (Lindane)	0.0022	U	0.0022	0.00069	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Heptachlor	0.0075	U	0.0075	0.00088	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Heptachlor epoxide	0.0075	U	0.0075	0.0011	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Methoxychlor	0.0075	U	0.0075	0.0017	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
Toxaphene	0.075	U	0.075	0.027	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1
trans-Chlordane	0.0096	p	0.0075	0.0013	mg/Kg	☼	07/15/19 09:15	07/16/19 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	95		49 - 150	07/15/19 09:15	07/16/19 19:11	1
DCB Decachlorobiphenyl	138		49 - 150	07/15/19 09:15	07/16/19 19:11	1
Tetrachloro-m-xylene	91		47 - 150	07/15/19 09:15	07/16/19 19:11	1
Tetrachloro-m-xylene	85		47 - 150	07/15/19 09:15	07/16/19 19:11	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor 1221	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 89.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor 1242	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor 1248	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor 1254	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor 1260	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor-1262	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Aroclor 1268	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1
Polychlorinated biphenyls, Total	0.075	U	0.075	0.010	mg/Kg	☼	07/15/19 08:59	07/16/19 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	108		53 - 150	07/15/19 08:59	07/16/19 17:17	1
DCB Decachlorobiphenyl	106		53 - 150	07/15/19 08:59	07/16/19 17:17	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	7530		22.4	7.7	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Antimony	0.40	J	1.1	0.33	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Arsenic	6.2		1.1	0.36	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Barium	283		2.2	0.74	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Beryllium	0.48		0.45	0.18	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Cadmium	0.51	J	1.1	0.38	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Calcium	116000		112	33.2	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Chromium	26.9		2.2	0.67	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Cobalt	6.2		2.2	0.67	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Copper	30.4		2.2	0.64	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Iron	19500		67.1	23.5	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Lead	329		0.67	0.21	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Magnesium	9700		112	31.1	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Manganese	294		4.5	1.4	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Nickel	19.1		2.2	0.73	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Potassium	1680		112	40.3	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Selenium	5.6	U	5.6	0.32	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Silver	1.1	U	1.1	0.69	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Sodium	548		112	35.0	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Thallium	0.45	U	0.45	0.14	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Vanadium	26.2		2.2	0.64	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20
Zinc	223		8.9	4.4	mg/Kg	☼	07/15/19 05:13	07/15/19 17:04	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.95		0.037	0.022	mg/Kg	☼	07/16/19 04:41	07/16/19 10:17	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.83	J	2.2	0.80	mg/Kg	☼	07/17/19 08:37	07/17/19 13:56	1
Percent Moisture	10.6		1.0	1.0	%			07/16/19 10:22	1
Percent Solids	89.4		1.0	1.0	%			07/16/19 10:22	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 80.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	0.0015	U	0.0015	0.00035	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,1,2,2-Tetrachloroethane	0.0015	U	0.0015	0.00032	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0015	U	0.0015	0.00045	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,1,2-Trichloroethane	0.0015	U	0.0015	0.00026	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,1-Dichloroethane	0.0015	U	0.0015	0.00031	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,1-Dichloroethene	0.0015	U	0.0015	0.00033	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,2,3-Trichlorobenzene	0.0015	U	0.0015	0.00027	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,2,4-Trichlorobenzene	0.0015	U	0.0015	0.00053	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,2-Dibromo-3-Chloropropane	0.0015	U	0.0015	0.00068	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,2-Dichlorobenzene	0.0015	U	0.0015	0.00021	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,2-Dichloroethane	0.0015	U	0.0015	0.00044	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,2-Dichloropropane	0.0015	U	0.0015	0.00063	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,3-Dichlorobenzene	0.0015	U	0.0015	0.00024	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,4-Dichlorobenzene	0.0015	U	0.0015	0.00033	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
1,4-Dioxane	0.030	U	0.030	0.014	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
2-Butanone (MEK)	0.0045	J	0.0074	0.0040	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
2-Hexanone	0.0074	U	0.0074	0.0025	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
4-Methyl-2-pentanone (MIBK)	0.0074	U	0.0074	0.0023	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Acetone	0.027		0.0089	0.0085	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Benzene	0.0015	U	0.0015	0.00038	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Bromoform	0.0015	U	0.0015	0.00063	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Bromomethane	0.0015	U	0.0015	0.00070	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Carbon disulfide	0.0015	U	0.0015	0.00039	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Carbon tetrachloride	0.0015	U	0.0015	0.00057	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Chlorobenzene	0.0015	U	0.0015	0.00026	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Chlorobromomethane	0.0015	U	0.0015	0.00042	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Chlorodibromomethane	0.0015	U	0.0015	0.00029	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Chloroethane	0.0015	U	0.0015	0.00077	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Chloroform	0.0015	U	0.0015	0.00047	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Chloromethane	0.0015	U	0.0015	0.00064	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
cis-1,2-Dichloroethene	0.0015	U	0.0015	0.00023	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
cis-1,3-Dichloropropene	0.0015	U	0.0015	0.00040	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Cyclohexane	0.0015	U	0.0015	0.00033	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Dichlorobromomethane	0.0015	U	0.0015	0.00038	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Dichlorodifluoromethane	0.0015	U	0.0015	0.00050	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Ethylbenzene	0.0015	U	0.0015	0.00029	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Ethylene Dibromide	0.0015	U	0.0015	0.00027	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Isopropylbenzene	0.0015	U	0.0015	0.00019	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Methyl acetate	0.0074	U	0.0074	0.0064	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Methyl tert-butyl ether	0.0015	U	0.0015	0.00019	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Methylcyclohexane	0.0015	U	0.0015	0.00074	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Methylene Chloride	0.0015	U	0.0015	0.00069	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
m-Xylene & p-Xylene	0.0010	J	0.0015	0.00026	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
o-Xylene	0.00054	J	0.0015	0.00029	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Styrene	0.0015	U	0.0015	0.00041	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Tetrachloroethene	0.0015	U	0.0015	0.00021	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Toluene	0.0015	U	0.0015	0.00035	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
trans-1,2-Dichloroethene	0.0015	U	0.0015	0.00036	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
trans-1,3-Dichloropropene	0.0015	U	0.0015	0.00039	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 80.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.0015	U	0.0015	0.00021	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Trichlorofluoromethane	0.0015	U	0.0015	0.00060	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Vinyl chloride	0.0015	U	0.0015	0.00081	mg/Kg	☼	07/13/19 07:47	07/18/19 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		78 - 135				07/13/19 07:47	07/18/19 03:07	1
4-Bromofluorobenzene	99		67 - 126				07/13/19 07:47	07/18/19 03:07	1
Dibromofluoromethane (Surr)	98		61 - 149				07/13/19 07:47	07/18/19 03:07	1
Toluene-d8 (Surr)	104		73 - 121				07/13/19 07:47	07/18/19 03:07	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.029	J	0.41	0.0055	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
1,2,4,5-Tetrachlorobenzene	0.41	U	0.41	0.0054	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,2'-oxybis[1-chloropropane]	0.41	U	0.41	0.0075	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,3,4,6-Tetrachlorophenol	0.41	U	0.41	0.028	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,4,5-Trichlorophenol	0.41	U	0.41	0.014	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,4,6-Trichlorophenol	0.17	U	0.17	0.021	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,4-Dichlorophenol	0.17	U	0.17	0.0087	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,4-Dimethylphenol	0.41	U	0.41	0.018	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,4-Dinitrophenol	0.33	U	0.33	0.20	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,4-Dinitrotoluene	0.084	U	0.084	0.021	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2,6-Dinitrotoluene	0.084	U	0.084	0.013	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2-Chloronaphthalene	0.41	U	0.41	0.019	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2-Chlorophenol	0.41	U	0.41	0.0058	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2-Methylnaphthalene	0.091	J	0.41	0.0052	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2-Methylphenol	0.41	U	0.41	0.0067	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
2-Nitrophenol	0.41	U	0.41	0.013	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
3,3'-Dichlorobenzidine	0.17	U	0.17	0.062	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
3-Nitroaniline	0.41	U	0.41	0.022	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4,6-Dinitro-2-methylphenol	0.33	U	0.33	0.067	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Bromophenyl phenyl ether	0.41	U	0.41	0.0053	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Chloro-3-methylphenol	0.41	U	0.41	0.0069	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Chloroaniline	0.41	U	0.41	0.029	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Chlorophenyl phenyl ether	0.41	U	0.41	0.0065	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Methylphenol	0.034	J	0.41	0.0070	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Nitroaniline	0.41	U	0.41	0.015	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
4-Nitrophenol	0.84	U	0.84	0.067	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Acenaphthene	0.14	J	0.41	0.030	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Acenaphthylene	0.54		0.41	0.0043	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Acetophenone	0.41	U	0.41	0.0067	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Anthracene	0.70		0.41	0.0046	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Atrazine	0.17	U	0.17	0.010	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Benzaldehyde	0.41	U	0.41	0.018	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Benzo[a]anthracene	2.8		0.041	0.014	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Benzo[a]pyrene	2.7		0.041	0.011	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Benzo[b]fluoranthene	3.6		0.041	0.011	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Benzo[g,h,i]perylene	1.8		0.41	0.012	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Benzo[k]fluoranthene	1.3		0.041	0.0081	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	0.41	U	0.41	0.014	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Bis(2-chloroethyl)ether	0.041	U	0.041	0.0050	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Bis(2-ethylhexyl) phthalate	0.10	J	0.41	0.022	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Butyl benzyl phthalate	0.027	J	0.41	0.019	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Caprolactam	0.41	U	0.41	0.025	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Carbazole	0.35	J	0.41	0.0048	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Chrysene	2.8		0.41	0.0070	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Dibenz(a,h)anthracene	0.40		0.041	0.018	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Dibenzofuran	0.23	J	0.41	0.0058	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Diethyl phthalate	0.41	U	0.41	0.0060	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Dimethyl phthalate	0.41	U	0.41	0.0050	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Di-n-butyl phthalate	0.41	U	0.41	0.073	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Di-n-octyl phthalate	0.41	U	0.41	0.022	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Fluoranthene	6.4		0.41	0.0054	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Fluorene	0.15	J	0.41	0.0056	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Hexachlorobenzene	0.041	U	0.041	0.0061	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Hexachlorobutadiene	0.084	U	0.084	0.0088	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Hexachlorocyclopentadiene	0.41	U *	0.41	0.036	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Hexachloroethane	0.041	U	0.041	0.0064	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Indeno[1,2,3-cd]pyrene	2.1		0.041	0.016	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Isophorone	0.17	U	0.17	0.011	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Naphthalene	0.21	J	0.41	0.0071	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Nitrobenzene	0.041	U	0.041	0.0099	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
N-Nitrosodi-n-propylamine	0.041	U	0.041	0.0066	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
N-Nitrosodiphenylamine	0.41	U	0.41	0.0079	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Pentachlorophenol	0.33	U	0.33	0.085	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Phenanthrene	4.3		0.41	0.0073	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Phenol	0.41	U	0.41	0.0061	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1
Pyrene	5.7		0.41	0.010	mg/Kg	☼	07/13/19 11:25	07/15/19 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	15		10 - 137	07/13/19 11:25	07/15/19 04:40	1
2-Fluorobiphenyl	26 *		29 - 107	07/13/19 11:25	07/15/19 04:40	1
2-Fluorophenol (Surr)	24		20 - 115	07/13/19 11:25	07/15/19 04:40	1
Nitrobenzene-d5 (Surr)	24 *		25 - 113	07/13/19 11:25	07/15/19 04:40	1
Phenol-d5 (Surr)	23 *		28 - 109	07/13/19 11:25	07/15/19 04:40	1
Terphenyl-d14 (Surr)	25 *		27 - 123	07/13/19 11:25	07/15/19 04:40	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.0020	J p	0.0084	0.0014	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
4,4'-DDE	0.031	p	0.0084	0.00099	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
4,4'-DDT	0.010	p	0.0084	0.0015	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Aldrin	0.0084	U	0.0084	0.0013	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
alpha-BHC	0.0025	U	0.0025	0.00085	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
beta-BHC	0.0025	U	0.0025	0.00094	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Chlordane (n.o.s.)	0.46		0.084	0.020	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
cis-Chlordane	0.063		0.0084	0.0013	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
delta-BHC	0.0025	U	0.0025	0.00051	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Dieldrin	0.048		0.0025	0.0011	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1

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Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 80.1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	0.0084	U	0.0084	0.0013	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Endosulfan II	0.0084	U	0.0084	0.0021	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Endosulfan sulfate	0.0084	U	0.0084	0.0010	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Endrin	0.0084	U	0.0084	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Endrin aldehyde	0.0084	U	0.0084	0.0020	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Endrin ketone	0.0084	U	0.0084	0.0016	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
gamma-BHC (Lindane)	0.0025	U	0.0025	0.00077	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Heptachlor	0.0084	U	0.0084	0.00099	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Heptachlor epoxide	0.0084	U	0.0084	0.0012	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Methoxychlor	0.0084	U	0.0084	0.0019	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
Toxaphene	0.084	U	0.084	0.030	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1
trans-Chlordane	0.030	p	0.0084	0.0015	mg/Kg	☼	07/15/19 09:15	07/16/19 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	110		49 - 150	07/15/19 09:15	07/16/19 19:26	1
DCB Decachlorobiphenyl	182	*	49 - 150	07/15/19 09:15	07/16/19 19:26	1
Tetrachloro-m-xylene	102		47 - 150	07/15/19 09:15	07/16/19 19:26	1
Tetrachloro-m-xylene	94		47 - 150	07/15/19 09:15	07/16/19 19:26	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1221	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1232	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1242	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1248	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1254	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1260	0.078	J	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor-1262	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Aroclor 1268	0.084	U	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1
Polychlorinated biphenyls, Total	0.078	J	0.084	0.011	mg/Kg	☼	07/15/19 08:59	07/16/19 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	141		53 - 150	07/15/19 08:59	07/16/19 17:34	1
DCB Decachlorobiphenyl	122		53 - 150	07/15/19 08:59	07/16/19 17:34	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10100		25.0	8.5	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Antimony	0.47	J	1.2	0.37	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Arsenic	6.2		1.2	0.40	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Barium	223		2.5	0.83	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Beryllium	0.40	J	0.50	0.20	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Cadmium	1.2	U	1.2	0.42	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Calcium	114000		125	37.1	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Chromium	21.4		2.5	0.75	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Cobalt	4.8		2.5	0.75	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Copper	20.8		2.5	0.72	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Iron	15100		74.9	26.2	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Lead	213		0.75	0.24	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20

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Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 80.1

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7770		125	34.7	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Manganese	269		5.0	1.5	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Nickel	14.3		2.5	0.81	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Potassium	1820		125	44.9	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Selenium	6.2	U	6.2	0.36	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Silver	1.2	U	1.2	0.77	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Sodium	649		125	39.1	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Thallium	0.50	U	0.50	0.16	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Vanadium	22.6		2.5	0.71	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20
Zinc	151		10	4.9	mg/Kg	☼	07/15/19 05:13	07/15/19 17:06	20

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.36		0.021	0.012	mg/Kg	☼	07/16/19 04:41	07/16/19 10:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.5	U	2.5	0.89	mg/Kg	☼	07/17/19 08:38	07/17/19 14:58	1
Percent Moisture	19.9		1.0	1.0	%			07/16/19 10:22	1
Percent Solids	80.1		1.0	1.0	%			07/16/19 10:22	1

Surrogate Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (78-135)	BFB (67-126)	DBFM (61-149)	TOL (73-121)
460-186281-1	SB-01_0-2_20190710	123	101	122	101
460-186281-2	SB-01_10-12_20190710	124	97	119	100
460-186281-3	SB-02_0-2_20190710	118	98	117	101
460-186281-4	SB-02_10-12_20190710	124	98	123	102
460-186281-5	SB-05_0-2_20190710	117	96	116	99
460-186281-6	SB-05_10-12_20190710	119	97	118	100
460-186281-7	SB-04_0-2_20190710	117	95	110	102
460-186281-8	SB-04_3-5_20190710	106	101	109	99
460-186298-B-6-B MS	Matrix Spike	121	98	119	99
460-186298-B-6-C MSD	Matrix Spike Duplicate	122	98	120	101
460-186524-1	SB-03_0-2_20190712	104	101	100	102
460-186524-2	SB-06_0-2_20190712	107	95	98	100
460-186524-3	SB-06_5-7_20190712	107	99	98	104
LB3 460-623780/1-A	Method Blank	119	99	120	102
LCS 460-624018/3	Lab Control Sample	114	97	116	101
LCS 460-624520/3	Lab Control Sample	107	94	103	99
LCS 460-625335/3	Lab Control Sample	106	95	101	102
LCS 460-624018/5	Lab Control Sample Dup	119	98	117	102
LCS 460-624520/4	Lab Control Sample Dup	114	96	108	99
LCS 460-625335/4	Lab Control Sample Dup	103	93	98	100
MB 460-624018/9	Method Blank	121	100	117	104
MB 460-624520/8	Method Blank	114	99	109	103
MB 460-625335/8	Method Blank	108	100	99	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-137)	FBP (29-107)	2FP (20-115)	NBZ (25-113)	PHL (28-109)	TPHL (27-123)
460-186281-1	SB-01_0-2_20190710	49	59	53	57	54	62
460-186281-2	SB-01_10-12_20190710	39	42	43	41	45	50
460-186281-3	SB-02_0-2_20190710	34	52	50	49	48	56
460-186281-4	SB-02_10-12_20190710	41	59	60	57	61	69
460-186281-5	SB-05_0-2_20190710	56	69	65	66	64	85
460-186281-6	SB-05_10-12_20190710	37	52	48	48	48	56
460-186281-7	SB-04_0-2_20190710	31	54	67	58	72	64
460-186281-8	SB-04_3-5_20190710	33	54	59	55	60	55
460-186306-E-4-A MS	Matrix Spike	79	78	73	73	75	88
460-186306-E-4-B MSD	Matrix Spike Duplicate	77	76	69	70	73	85
460-186522-E-1-A MS	Matrix Spike	51	44	48	57	62	43
460-186522-E-1-B MSD	Matrix Spike Duplicate	53	47	51	60	61	45
460-186524-1	SB-03_0-2_20190712	54	47	50	58	56	46
460-186524-2	SB-06_0-2_20190712	6 *	38	31	46	41	36

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Surrogate Summary

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (10-137)	FBP (29-107)	2FP (20-115)	NBZ (25-113)	PHL (28-109)	TPHL (27-123)
460-186524-3	SB-06_5-7_20190712	15	26 *	24	24 *	23 *	25 *
LCS 460-623796/2-A	Lab Control Sample	82	80	76	77	77	91
LCS 460-623796/4-A	Lab Control Sample	83	80	82	78	83	100
LCS 460-624336/2-A	Lab Control Sample	83	69	75	87	85	67
LCS 460-624336/4-A	Lab Control Sample	90	72	72	89	77	71
LCSD 460-623796/3-A	Lab Control Sample Dup	80	79	78	77	76	90
MB 460-623796/1-A	Method Blank	85	85	81	79	82	100
MB 460-624336/1-A	Method Blank	84	72	63	91	81	73

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
 FBP = 2-Fluorobiphenyl
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCBP1 (49-150)	DCBP2 (49-150)	TCX1 (47-150)	TCX2 (47-150)
460-186281-1	SB-01_0-2_20190710	237 *	147	70	66
460-186281-2	SB-01_10-12_20190710	88	92	71	72
460-186281-3	SB-02_0-2_20190710	4182 *	3249 *	74	72
460-186281-4	SB-02_10-12_20190710	247 *	81	68	69
460-186281-5	SB-05_0-2_20190710	3467 *	3018 *	78	79
460-186281-6	SB-05_10-12_20190710	73	89	71	72
460-186281-6 MS	SB-05_10-12_20190710	73	90	69	73
460-186281-6 MSD	SB-05_10-12_20190710	79	101	75	77
460-186281-7	SB-04_0-2_20190710	272 *	103	67	69
460-186281-8	SB-04_3-5_20190710	95	97	68	66
460-186524-1	SB-03_0-2_20190712	97	91	99	89
460-186524-2	SB-06_0-2_20190712	95	138	91	85
460-186524-3	SB-06_5-7_20190712	110	182 *	102	94
460-186525-E-5-H MS	Matrix Spike	125	114	103	93
460-186525-E-5-I MSD	Matrix Spike Duplicate	114	104	88	87
LCS 460-623792/2-A	Lab Control Sample	80	87	80	78
LCS 460-624580/2-A	Lab Control Sample	99	83	84	82
LCSD 460-623792/3-A	Lab Control Sample Dup	80	84	79	82
LCSD 460-624580/3-A	Lab Control Sample Dup	96	82	83	79
MB 460-623792/1-A	Method Blank	88	96	87	87
MB 460-624580/1-A	Method Blank	115	105	112	102

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
 TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (53-150)	DCBP2 (53-150)
460-186281-1	SB-01_0-2_20190710	107	105
460-186281-2	SB-01_10-12_20190710	102	109
460-186281-3	SB-02_0-2_20190710	107	94
460-186281-4	SB-02_10-12_20190710	77	89
460-186281-5	SB-05_0-2_20190710	110	104
460-186281-6	SB-05_10-12_20190710	96	94
460-186281-6 MS	SB-05_10-12_20190710	80	92
460-186281-6 MSD	SB-05_10-12_20190710	107	111
460-186281-7	SB-04_0-2_20190710	96	94
460-186281-8	SB-04_3-5_20190710	81	84
460-186524-1	SB-03_0-2_20190712	115	118
460-186524-2	SB-06_0-2_20190712	108	106
460-186524-3	SB-06_5-7_20190712	141	122
460-186525-E-5-E MS	Matrix Spike	120	122
460-186525-E-5-F MSD	Matrix Spike Duplicate	105	108
LCS 460-623789/2-A	Lab Control Sample	94	98
LCS 460-624576/2-A	Lab Control Sample	120	127
LCSD 460-623789/3-A	Lab Control Sample Dup	94	97
LCSD 460-624576/3-A	Lab Control Sample Dup	128	138
MB 460-623789/1-A	Method Blank	104	102
MB 460-624576/1-A	Method Blank	124	121

Surrogate Legend

DCBP = DCB Decachlorobiphenyl



QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: LB3 460-623780/1-A
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623780

Analyte	LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.23	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.30	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.18	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,1-Dichloroethane	1.0	U	1.0	0.21	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,1-Dichloroethene	1.0	U	1.0	0.23	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.18	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.36	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.46	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.14	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,2-Dichloroethane	1.0	U	1.0	0.30	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,2-Dichloropropane	1.0	U	1.0	0.42	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.16	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.23	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
1,4-Dioxane	20	U	20	9.2	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
2-Butanone (MEK)	5.0	U	5.0	2.7	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
2-Hexanone	5.0	U	5.0	1.7	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.6	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Acetone	6.0	U	6.0	5.7	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Benzene	1.0	U	1.0	0.26	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Bromoform	1.0	U	1.0	0.43	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Bromomethane	1.0	U	1.0	0.47	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Carbon disulfide	1.0	U	1.0	0.27	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Carbon tetrachloride	1.0	U	1.0	0.39	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Chlorobenzene	1.0	U	1.0	0.18	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Chlorobromomethane	1.0	U	1.0	0.28	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Chlorodibromomethane	1.0	U	1.0	0.19	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Chloroethane	1.0	U	1.0	0.52	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Chloroform	1.0	U	1.0	0.32	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Chloromethane	1.0	U	1.0	0.44	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.15	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.27	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Cyclohexane	1.0	U	1.0	0.22	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Dichlorobromomethane	1.0	U	1.0	0.26	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.34	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Ethylbenzene	1.0	U	1.0	0.20	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Ethylene Dibromide	1.0	U	1.0	0.18	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Isopropylbenzene	1.0	U	1.0	0.13	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Methyl acetate	5.0	U	5.0	4.3	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.13	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Methylcyclohexane	1.0	U	1.0	0.50	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Methylene Chloride	1.0	U	1.0	0.46	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
m-Xylene & p-Xylene	1.0	U	1.0	0.17	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
o-Xylene	1.0	U	1.0	0.19	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Styrene	1.0	U	1.0	0.28	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Tetrachloroethene	1.0	U	1.0	0.14	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Toluene	1.0	U	1.0	0.23	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.25	mg/Kg		07/11/19 08:09	07/12/19 09:03	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB3 460-623780/1-A
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623780

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	1.0	U	1.0	0.27	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Trichloroethene	1.0	U	1.0	0.14	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Trichlorofluoromethane	1.0	U	1.0	0.41	mg/Kg		07/11/19 08:09	07/12/19 09:03	1
Vinyl chloride	1.0	U	1.0	0.55	mg/Kg		07/11/19 08:09	07/12/19 09:03	1

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	119		78 - 135	07/11/19 08:09	07/12/19 09:03	1
4-Bromofluorobenzene	99		67 - 126	07/11/19 08:09	07/12/19 09:03	1
Dibromofluoromethane (Surr)	120		61 - 149	07/11/19 08:09	07/12/19 09:03	1
Toluene-d8 (Surr)	102		73 - 121	07/11/19 08:09	07/12/19 09:03	1

Lab Sample ID: 460-186298-B-6-B MS
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623809

Analyte	Sample	Sample	Spike	MS MS		Unit	D	%Rec	%Rec.
	Result	Qualifier		Added	Result				
1,1,1-Trichloroethane	0.0011	U	0.0201	0.0212		mg/Kg	☼	105	80 - 125
1,1,2,2-Tetrachloroethane	0.0011	U	0.0201	0.0154		mg/Kg	☼	77	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0201	0.0196		mg/Kg	☼	97	78 - 132
1,1,2-Trichloroethane	0.0011	U	0.0201	0.0168		mg/Kg	☼	83	76 - 124
1,1-Dichloroethane	0.0011	U	0.0201	0.0202		mg/Kg	☼	101	80 - 124
1,1-Dichloroethene	0.0011	U	0.0201	0.0206		mg/Kg	☼	102	79 - 132
1,2,3-Trichlorobenzene	0.0011	U	0.0201	0.0142	*	mg/Kg	☼	70	75 - 123
1,2,4-Trichlorobenzene	0.0011	U	0.0201	0.0143	*	mg/Kg	☼	71	74 - 124
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0201	0.0150		mg/Kg	☼	74	65 - 129
1,2-Dichlorobenzene	0.0011	U	0.0201	0.0159	*	mg/Kg	☼	79	80 - 121
1,2-Dichloroethane	0.0011	U	0.0201	0.0201		mg/Kg	☼	100	68 - 120
1,2-Dichloropropane	0.0011	U	0.0201	0.0190		mg/Kg	☼	94	77 - 124
1,3-Dichlorobenzene	0.0011	U	0.0201	0.0155	*	mg/Kg	☼	77	79 - 124
1,4-Dichlorobenzene	0.0011	U	0.0201	0.0153	*	mg/Kg	☼	76	79 - 121
1,4-Dioxane	0.021	U	0.403	0.350		mg/Kg	☼	87	67 - 150
2-Butanone (MEK)	0.0053	U	0.101	0.0852		mg/Kg	☼	85	61 - 140
2-Hexanone	0.0053	U	0.101	0.0833		mg/Kg	☼	83	78 - 120
4-Methyl-2-pentanone (MIBK)	0.0053	U	0.101	0.0900		mg/Kg	☼	89	80 - 120
Acetone	0.022		0.101	0.0992		mg/Kg	☼	77	75 - 120
Benzene	0.0011	U	0.0201	0.0172		mg/Kg	☼	85	75 - 127
Bromoform	0.0011	U	0.0201	0.0170		mg/Kg	☼	84	19 - 150
Bromomethane	0.0011	U	0.0201	0.0187		mg/Kg	☼	93	59 - 136
Carbon disulfide	0.0011	U	0.0201	0.0204		mg/Kg	☼	101	74 - 130
Carbon tetrachloride	0.0011	U	0.0201	0.0212		mg/Kg	☼	105	77 - 138
Chlorobenzene	0.0011	U	0.0201	0.0171		mg/Kg	☼	85	80 - 120
Chlorobromomethane	0.0011	U	0.0201	0.0200		mg/Kg	☼	99	80 - 125
Chlorodibromomethane	0.0011	U	0.0201	0.0180		mg/Kg	☼	89	67 - 143
Chloroethane	0.0011	U	0.0201	0.0192		mg/Kg	☼	95	50 - 139
Chloroform	0.0011	U	0.0201	0.0197		mg/Kg	☼	98	80 - 122
Chloromethane	0.0011	U	0.0201	0.0206		mg/Kg	☼	103	66 - 128
cis-1,2-Dichloroethene	0.0011	U	0.0201	0.0197		mg/Kg	☼	98	80 - 123
cis-1,3-Dichloropropene	0.0011	U	0.0201	0.0174		mg/Kg	☼	87	75 - 124

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-186298-B-6-B MS
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623809

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Cyclohexane	0.0011	U	0.0201	0.0204		mg/Kg	☼	101		67 - 135
Dichlorobromomethane	0.0011	U	0.0201	0.0206		mg/Kg	☼	102		76 - 129
Dichlorodifluoromethane	0.0011	U	0.0201	0.0147		mg/Kg	☼	73		72 - 127
Ethylbenzene	0.0011	U	0.0201	0.0167		mg/Kg	☼	83		79 - 124
Ethylene Dibromide	0.0011	U	0.0201	0.0173		mg/Kg	☼	86		80 - 122
Isopropylbenzene	0.0011	U	0.0201	0.0169		mg/Kg	☼	84		80 - 125
Methyl acetate	0.0053	U	0.0403	0.0418		mg/Kg	☼	104		73 - 123
Methyl tert-butyl ether	0.0011	U	0.0201	0.0204		mg/Kg	☼	102		80 - 120
Methylcyclohexane	0.0011	U	0.0201	0.0200		mg/Kg	☼	99		71 - 137
Methylene Chloride	0.0021		0.0201	0.0202		mg/Kg	☼	90		79 - 128
m-Xylene & p-Xylene	0.00088	J	0.0201	0.0179		mg/Kg	☼	85		79 - 121
o-Xylene	0.0011	U	0.0201	0.0174		mg/Kg	☼	86		79 - 123
Styrene	0.0011	U	0.0201	0.0167		mg/Kg	☼	83		78 - 123
Tetrachloroethene	0.0011	U	0.0201	0.0173		mg/Kg	☼	86		73 - 130
Toluene	0.0011	U	0.0201	0.0171		mg/Kg	☼	85		75 - 122
trans-1,2-Dichloroethene	0.0011	U	0.0201	0.0208		mg/Kg	☼	104		80 - 129
trans-1,3-Dichloropropene	0.0011	U	0.0201	0.0164		mg/Kg	☼	82		72 - 121
Trichloroethene	0.0011	U	0.0201	0.0207		mg/Kg	☼	103		79 - 122
Trichlorofluoromethane	0.0011	U	0.0201	0.0196		mg/Kg	☼	98		68 - 136
Vinyl chloride	0.0011	U	0.0201	0.0190		mg/Kg	☼	94		70 - 134

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	121		78 - 135
4-Bromofluorobenzene	98		67 - 126
Dibromofluoromethane (Surr)	119		61 - 149
Toluene-d8 (Surr)	99		73 - 121

Lab Sample ID: 460-186298-B-6-C MSD
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623809

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1,1,1-Trichloroethane	0.0011	U	0.0181	0.0188		mg/Kg	☼	104		80 - 125	12	30
1,1,2,2-Tetrachloroethane	0.0011	U	0.0181	0.0132		mg/Kg	☼	73		72 - 131	15	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0011	U	0.0181	0.0178		mg/Kg	☼	98		78 - 132	9	30
1,1,2-Trichloroethane	0.0011	U	0.0181	0.0150		mg/Kg	☼	83		76 - 124	11	30
1,1-Dichloroethane	0.0011	U	0.0181	0.0176		mg/Kg	☼	97		80 - 124	14	30
1,1-Dichloroethene	0.0011	U	0.0181	0.0178		mg/Kg	☼	99		79 - 132	15	30
1,2,3-Trichlorobenzene	0.0011	U	0.0181	0.0117	*	mg/Kg	☼	65		75 - 123	19	30
1,2,4-Trichlorobenzene	0.0011	U	0.0181	0.0121	*	mg/Kg	☼	67		74 - 124	17	30
1,2-Dibromo-3-Chloropropane	0.0011	U	0.0181	0.0123		mg/Kg	☼	68		65 - 129	20	30
1,2-Dichlorobenzene	0.0011	U	0.0181	0.0136	*	mg/Kg	☼	76		80 - 121	15	30
1,2-Dichloroethane	0.0011	U	0.0181	0.0172		mg/Kg	☼	95		68 - 120	16	30
1,2-Dichloropropane	0.0011	U	0.0181	0.0173		mg/Kg	☼	96		77 - 124	10	30
1,3-Dichlorobenzene	0.0011	U	0.0181	0.0132	*	mg/Kg	☼	73		79 - 124	16	30
1,4-Dichlorobenzene	0.0011	U	0.0181	0.0133	*	mg/Kg	☼	73		79 - 121	14	30
1,4-Dioxane	0.021	U	0.361	0.306		mg/Kg	☼	85		67 - 150	13	30
2-Butanone (MEK)	0.0053	U	0.0903	0.0762		mg/Kg	☼	84		61 - 140	11	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-186298-B-6-C MSD

Matrix: Solid

Analysis Batch: 624018

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 623809

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
2-Hexanone	0.0053	U	0.0903	0.0715		mg/Kg	☼	79	78 - 120	15	30
4-Methyl-2-pentanone (MIBK)	0.0053	U	0.0903	0.0771		mg/Kg	☼	85	80 - 120	15	30
Acetone	0.022		0.0903	0.0843	*	mg/Kg	☼	69	75 - 120	16	30
Benzene	0.0011	U	0.0181	0.0155		mg/Kg	☼	86	75 - 127	11	30
Bromoform	0.0011	U	0.0181	0.0147		mg/Kg	☼	81	19 - 150	14	30
Bromomethane	0.0011	U	0.0181	0.0172		mg/Kg	☼	95	59 - 136	9	30
Carbon disulfide	0.0011	U	0.0181	0.0172		mg/Kg	☼	95	74 - 130	17	30
Carbon tetrachloride	0.0011	U	0.0181	0.0184		mg/Kg	☼	102	77 - 138	14	30
Chlorobenzene	0.0011	U	0.0181	0.0149		mg/Kg	☼	83	80 - 120	13	30
Chlorobromomethane	0.0011	U	0.0181	0.0184		mg/Kg	☼	102	80 - 125	8	30
Chlorodibromomethane	0.0011	U	0.0181	0.0161		mg/Kg	☼	89	67 - 143	11	30
Chloroethane	0.0011	U	0.0181	0.0175		mg/Kg	☼	97	50 - 139	9	30
Chloroform	0.0011	U	0.0181	0.0182		mg/Kg	☼	101	80 - 122	8	30
Chloromethane	0.0011	U	0.0181	0.0177		mg/Kg	☼	98	66 - 128	15	30
cis-1,2-Dichloroethene	0.0011	U	0.0181	0.0182		mg/Kg	☼	101	80 - 123	8	30
cis-1,3-Dichloropropene	0.0011	U	0.0181	0.0150		mg/Kg	☼	83	75 - 124	15	30
Cyclohexane	0.0011	U	0.0181	0.0174		mg/Kg	☼	96	67 - 135	16	30
Dichlorobromomethane	0.0011	U	0.0181	0.0179		mg/Kg	☼	99	76 - 129	14	30
Dichlorodifluoromethane	0.0011	U	0.0181	0.0137		mg/Kg	☼	76	72 - 127	7	30
Ethylbenzene	0.0011	U	0.0181	0.0145		mg/Kg	☼	80	79 - 124	14	30
Ethylene Dibromide	0.0011	U	0.0181	0.0158		mg/Kg	☼	87	80 - 122	9	30
Isopropylbenzene	0.0011	U	0.0181	0.0153		mg/Kg	☼	85	80 - 125	10	30
Methyl acetate	0.0053	U	0.0361	0.0389		mg/Kg	☼	108	73 - 123	7	30
Methyl tert-butyl ether	0.0011	U	0.0181	0.0185		mg/Kg	☼	102	80 - 120	10	30
Methylcyclohexane	0.0011	U	0.0181	0.0174		mg/Kg	☼	97	71 - 137	14	30
Methylene Chloride	0.0021		0.0181	0.0183		mg/Kg	☼	90	79 - 128	10	30
m-Xylene & p-Xylene	0.00088	J	0.0181	0.0155		mg/Kg	☼	81	79 - 121	15	30
o-Xylene	0.0011	U	0.0181	0.0148		mg/Kg	☼	82	79 - 123	16	30
Styrene	0.0011	U	0.0181	0.0149		mg/Kg	☼	83	78 - 123	11	30
Tetrachloroethene	0.0011	U	0.0181	0.0155		mg/Kg	☼	86	73 - 130	11	30
Toluene	0.0011	U	0.0181	0.0149		mg/Kg	☼	83	75 - 122	14	30
trans-1,2-Dichloroethene	0.0011	U	0.0181	0.0172		mg/Kg	☼	95	80 - 129	19	30
trans-1,3-Dichloropropene	0.0011	U	0.0181	0.0151		mg/Kg	☼	84	72 - 121	9	30
Trichloroethene	0.0011	U	0.0181	0.0178		mg/Kg	☼	98	79 - 122	15	30
Trichlorofluoromethane	0.0011	U	0.0181	0.0176		mg/Kg	☼	97	68 - 136	11	30
Vinyl chloride	0.0011	U	0.0181	0.0176		mg/Kg	☼	97	70 - 134	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	122		78 - 135
4-Bromofluorobenzene	98		67 - 126
Dibromofluoromethane (Surr)	120		61 - 149
Toluene-d8 (Surr)	101		73 - 121

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-624018/9
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			07/12/19 08:36	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			07/12/19 08:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			07/12/19 08:36	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			07/12/19 08:36	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			07/12/19 08:36	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			07/12/19 08:36	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			07/12/19 08:36	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			07/12/19 08:36	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			07/12/19 08:36	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00014	mg/Kg			07/12/19 08:36	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			07/12/19 08:36	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			07/12/19 08:36	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg			07/12/19 08:36	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			07/12/19 08:36	1
1,4-Dioxane	0.020	U	0.020	0.0092	mg/Kg			07/12/19 08:36	1
2-Butanone (MEK)	0.0050	U	0.0050	0.0027	mg/Kg			07/12/19 08:36	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			07/12/19 08:36	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			07/12/19 08:36	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			07/12/19 08:36	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			07/12/19 08:36	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			07/12/19 08:36	1
Bromomethane	0.0010	U	0.0010	0.00047	mg/Kg			07/12/19 08:36	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			07/12/19 08:36	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			07/12/19 08:36	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			07/12/19 08:36	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			07/12/19 08:36	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			07/12/19 08:36	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			07/12/19 08:36	1
Chloroform	0.0010	U	0.0010	0.00032	mg/Kg			07/12/19 08:36	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			07/12/19 08:36	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00015	mg/Kg			07/12/19 08:36	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			07/12/19 08:36	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			07/12/19 08:36	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			07/12/19 08:36	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			07/12/19 08:36	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			07/12/19 08:36	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			07/12/19 08:36	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg			07/12/19 08:36	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			07/12/19 08:36	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg			07/12/19 08:36	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			07/12/19 08:36	1
Methylene Chloride	0.0010	U	0.0010	0.00046	mg/Kg			07/12/19 08:36	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			07/12/19 08:36	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			07/12/19 08:36	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			07/12/19 08:36	1
Tetrachloroethene	0.0010	U	0.0010	0.00014	mg/Kg			07/12/19 08:36	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			07/12/19 08:36	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			07/12/19 08:36	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-624018/9
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			07/12/19 08:36	1
Trichloroethene	0.0010	U	0.0010	0.00014	mg/Kg			07/12/19 08:36	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			07/12/19 08:36	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			07/12/19 08:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	121		78 - 135		07/12/19 08:36	1
4-Bromofluorobenzene	100		67 - 126		07/12/19 08:36	1
Dibromofluoromethane (Surr)	117		61 - 149		07/12/19 08:36	1
Toluene-d8 (Surr)	104		73 - 121		07/12/19 08:36	1

Lab Sample ID: LCS 460-624018/3
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	0.0200	0.0251	*	mg/Kg		126	80 - 125
1,1,1,2-Tetrachloroethane	0.0200	0.0175		mg/Kg		88	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0252		mg/Kg		126	78 - 132
1,1,2-Trichloroethane	0.0200	0.0202		mg/Kg		101	76 - 124
1,1-Dichloroethane	0.0200	0.0237		mg/Kg		119	80 - 124
1,1-Dichloroethene	0.0200	0.0237		mg/Kg		118	79 - 132
1,2,3-Trichlorobenzene	0.0200	0.0193		mg/Kg		96	75 - 123
1,2,4-Trichlorobenzene	0.0200	0.0201		mg/Kg		101	74 - 124
1,2-Dibromo-3-Chloropropane	0.0200	0.0172		mg/Kg		86	65 - 129
1,2-Dichlorobenzene	0.0200	0.0195		mg/Kg		98	80 - 121
1,2-Dichloroethane	0.0200	0.0226		mg/Kg		113	68 - 120
1,2-Dichloropropane	0.0200	0.0236		mg/Kg		118	77 - 124
1,3-Dichlorobenzene	0.0200	0.0195		mg/Kg		98	79 - 124
1,4-Dichlorobenzene	0.0200	0.0192		mg/Kg		96	79 - 121
1,4-Dioxane	0.400	0.365		mg/Kg		91	67 - 150
2-Butanone (MEK)	0.100	0.108		mg/Kg		108	61 - 140
2-Hexanone	0.100	0.101		mg/Kg		101	78 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.112		mg/Kg		112	80 - 120
Acetone	0.100	0.111		mg/Kg		111	75 - 120
Benzene	0.0200	0.0208		mg/Kg		104	75 - 127
Bromoform	0.0200	0.0197		mg/Kg		98	19 - 150
Bromomethane	0.0200	0.0220		mg/Kg		110	59 - 136
Carbon disulfide	0.0200	0.0236		mg/Kg		118	74 - 130
Carbon tetrachloride	0.0200	0.0255		mg/Kg		127	77 - 138
Chlorobenzene	0.0200	0.0205		mg/Kg		102	80 - 120
Chlorobromomethane	0.0200	0.0233		mg/Kg		117	80 - 125
Chlorodibromomethane	0.0200	0.0208		mg/Kg		104	67 - 143
Chloroethane	0.0200	0.0234		mg/Kg		117	50 - 139
Chloroform	0.0200	0.0242		mg/Kg		121	80 - 122
Chloromethane	0.0200	0.0240		mg/Kg		120	66 - 128
cis-1,2-Dichloroethene	0.0200	0.0239		mg/Kg		120	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0200		mg/Kg		100	75 - 124

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-624018/3
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	0.0200	0.0240		mg/Kg		120	67 - 135
Dichlorobromomethane	0.0200	0.0237		mg/Kg		119	76 - 129
Dichlorodifluoromethane	0.0200	0.0176		mg/Kg		88	72 - 127
Ethylbenzene	0.0200	0.0212		mg/Kg		106	79 - 124
Ethylene Dibromide	0.0200	0.0214		mg/Kg		107	80 - 122
Isopropylbenzene	0.0200	0.0220		mg/Kg		110	80 - 125
Methyl acetate	0.0400	0.0446		mg/Kg		112	73 - 123
Methyl tert-butyl ether	0.0200	0.0245	*	mg/Kg		122	80 - 120
Methylcyclohexane	0.0200	0.0253		mg/Kg		126	71 - 137
Methylene Chloride	0.0200	0.0230		mg/Kg		115	79 - 128
m-Xylene & p-Xylene	0.0200	0.0211		mg/Kg		105	79 - 121
o-Xylene	0.0200	0.0211		mg/Kg		105	79 - 123
Styrene	0.0200	0.0211		mg/Kg		105	78 - 123
Tetrachloroethene	0.0200	0.0215		mg/Kg		107	73 - 130
Toluene	0.0200	0.0209		mg/Kg		104	75 - 122
trans-1,2-Dichloroethene	0.0200	0.0232		mg/Kg		116	80 - 129
trans-1,3-Dichloropropene	0.0200	0.0195		mg/Kg		98	72 - 121
Trichloroethene	0.0200	0.0243		mg/Kg		122	79 - 122
Trichlorofluoromethane	0.0200	0.0233		mg/Kg		116	68 - 136
Vinyl chloride	0.0200	0.0242		mg/Kg		121	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		78 - 135
4-Bromofluorobenzene	97		67 - 126
Dibromofluoromethane (Surr)	116		61 - 149
Toluene-d8 (Surr)	101		73 - 121

Lab Sample ID: LCSD 460-624018/5
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0232		mg/Kg		116	80 - 125	8	30
1,1,1,2-Tetrachloroethane	0.0200	0.0155		mg/Kg		78	72 - 131	12	30
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0242		mg/Kg		121	78 - 132	4	30
1,1,1,2-Trichloroethane	0.0200	0.0182		mg/Kg		91	76 - 124	10	30
1,1-Dichloroethane	0.0200	0.0216		mg/Kg		108	80 - 124	9	30
1,1-Dichloroethene	0.0200	0.0218		mg/Kg		109	79 - 132	8	30
1,2,3-Trichlorobenzene	0.0200	0.0172		mg/Kg		86	75 - 123	12	30
1,2,4-Trichlorobenzene	0.0200	0.0178		mg/Kg		89	74 - 124	13	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0160		mg/Kg		80	65 - 129	7	30
1,2-Dichlorobenzene	0.0200	0.0174		mg/Kg		87	80 - 121	11	30
1,2-Dichloroethane	0.0200	0.0206		mg/Kg		103	68 - 120	9	30
1,2-Dichloropropane	0.0200	0.0207		mg/Kg		103	77 - 124	13	30
1,3-Dichlorobenzene	0.0200	0.0176		mg/Kg		88	79 - 124	11	30
1,4-Dichlorobenzene	0.0200	0.0176		mg/Kg		88	79 - 121	9	30
1,4-Dioxane	0.400	0.376		mg/Kg		94	67 - 150	3	30
2-Butanone (MEK)	0.100	0.0907		mg/Kg		91	61 - 140	18	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-624018/5
Matrix: Solid
Analysis Batch: 624018

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	0.100	0.0871		mg/Kg		87	78 - 120	15	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0919		mg/Kg		92	80 - 120	20	30
Acetone	0.100	0.0974		mg/Kg		97	75 - 120	13	30
Benzene	0.0200	0.0187		mg/Kg		93	75 - 127	11	30
Bromoform	0.0200	0.0180		mg/Kg		90	19 - 150	9	30
Bromomethane	0.0200	0.0218		mg/Kg		109	59 - 136	1	30
Carbon disulfide	0.0200	0.0228		mg/Kg		114	74 - 130	3	30
Carbon tetrachloride	0.0200	0.0237		mg/Kg		119	77 - 138	7	30
Chlorobenzene	0.0200	0.0181		mg/Kg		91	80 - 120	12	30
Chlorobromomethane	0.0200	0.0209		mg/Kg		105	80 - 125	11	30
Chlorodibromomethane	0.0200	0.0190		mg/Kg		95	67 - 143	9	30
Chloroethane	0.0200	0.0232		mg/Kg		116	50 - 139	1	30
Chloroform	0.0200	0.0213		mg/Kg		106	80 - 122	13	30
Chloromethane	0.0200	0.0238		mg/Kg		119	66 - 128	1	30
cis-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	80 - 123	11	30
cis-1,3-Dichloropropene	0.0200	0.0183		mg/Kg		91	75 - 124	9	30
Cyclohexane	0.0200	0.0218		mg/Kg		109	67 - 135	9	30
Dichlorobromomethane	0.0200	0.0208		mg/Kg		104	76 - 129	13	30
Dichlorodifluoromethane	0.0200	0.0173		mg/Kg		87	72 - 127	1	30
Ethylbenzene	0.0200	0.0191		mg/Kg		96	79 - 124	10	30
Ethylene Dibromide	0.0200	0.0184		mg/Kg		92	80 - 122	15	30
Isopropylbenzene	0.0200	0.0197		mg/Kg		99	80 - 125	11	30
Methyl acetate	0.0400	0.0418		mg/Kg		105	73 - 123	6	30
Methyl tert-butyl ether	0.0200	0.0218		mg/Kg		109	80 - 120	12	30
Methylcyclohexane	0.0200	0.0230		mg/Kg		115	71 - 137	9	30
Methylene Chloride	0.0200	0.0207		mg/Kg		103	79 - 128	11	30
m-Xylene & p-Xylene	0.0200	0.0194		mg/Kg		97	79 - 121	8	30
o-Xylene	0.0200	0.0192		mg/Kg		96	79 - 123	9	30
Styrene	0.0200	0.0186		mg/Kg		93	78 - 123	12	30
Tetrachloroethene	0.0200	0.0198		mg/Kg		99	73 - 130	8	30
Toluene	0.0200	0.0189		mg/Kg		95	75 - 122	10	30
trans-1,2-Dichloroethene	0.0200	0.0227		mg/Kg		113	80 - 129	2	30
trans-1,3-Dichloropropene	0.0200	0.0175		mg/Kg		88	72 - 121	11	30
Trichloroethene	0.0200	0.0217		mg/Kg		108	79 - 122	12	30
Trichlorofluoromethane	0.0200	0.0228		mg/Kg		114	68 - 136	2	30
Vinyl chloride	0.0200	0.0240		mg/Kg		120	70 - 134	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	119		78 - 135
4-Bromofluorobenzene	98		67 - 126
Dibromofluoromethane (Surr)	117		61 - 149
Toluene-d8 (Surr)	102		73 - 121

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-624520/8
Matrix: Solid
Analysis Batch: 624520

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			07/15/19 08:04	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			07/15/19 08:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			07/15/19 08:04	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			07/15/19 08:04	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			07/15/19 08:04	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			07/15/19 08:04	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			07/15/19 08:04	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			07/15/19 08:04	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			07/15/19 08:04	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00014	mg/Kg			07/15/19 08:04	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			07/15/19 08:04	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			07/15/19 08:04	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg			07/15/19 08:04	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			07/15/19 08:04	1
1,4-Dioxane	0.020	U	0.020	0.0092	mg/Kg			07/15/19 08:04	1
2-Butanone (MEK)	0.0050	U	0.0050	0.0027	mg/Kg			07/15/19 08:04	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			07/15/19 08:04	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			07/15/19 08:04	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			07/15/19 08:04	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			07/15/19 08:04	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			07/15/19 08:04	1
Bromomethane	0.0010	U	0.0010	0.00047	mg/Kg			07/15/19 08:04	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			07/15/19 08:04	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			07/15/19 08:04	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			07/15/19 08:04	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			07/15/19 08:04	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			07/15/19 08:04	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			07/15/19 08:04	1
Chloroform	0.0010	U	0.0010	0.00032	mg/Kg			07/15/19 08:04	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			07/15/19 08:04	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00015	mg/Kg			07/15/19 08:04	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			07/15/19 08:04	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			07/15/19 08:04	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			07/15/19 08:04	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			07/15/19 08:04	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			07/15/19 08:04	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			07/15/19 08:04	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg			07/15/19 08:04	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			07/15/19 08:04	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg			07/15/19 08:04	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			07/15/19 08:04	1
Methylene Chloride	0.0010	U	0.0010	0.00046	mg/Kg			07/15/19 08:04	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			07/15/19 08:04	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			07/15/19 08:04	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			07/15/19 08:04	1
Tetrachloroethene	0.0010	U	0.0010	0.00014	mg/Kg			07/15/19 08:04	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			07/15/19 08:04	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			07/15/19 08:04	1

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-624520/8
Matrix: Solid
Analysis Batch: 624520

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			07/15/19 08:04	1
Trichloroethene	0.0010	U	0.0010	0.00014	mg/Kg			07/15/19 08:04	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			07/15/19 08:04	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			07/15/19 08:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	114		78 - 135		07/15/19 08:04	1
4-Bromofluorobenzene	99		67 - 126		07/15/19 08:04	1
Dibromofluoromethane (Surr)	109		61 - 149		07/15/19 08:04	1
Toluene-d8 (Surr)	103		73 - 121		07/15/19 08:04	1

Lab Sample ID: LCS 460-624520/3
Matrix: Solid
Analysis Batch: 624520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	0.0200	0.0214		mg/Kg		107	80 - 125
1,1,1,2-Tetrachloroethane	0.0200	0.0185		mg/Kg		93	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0213		mg/Kg		107	78 - 132
1,1,2-Trichloroethane	0.0200	0.0178		mg/Kg		89	76 - 124
1,1-Dichloroethane	0.0200	0.0218		mg/Kg		109	80 - 124
1,1-Dichloroethene	0.0200	0.0208		mg/Kg		104	79 - 132
1,2,3-Trichlorobenzene	0.0200	0.0190		mg/Kg		95	75 - 123
1,2,4-Trichlorobenzene	0.0200	0.0196		mg/Kg		98	74 - 124
1,2-Dibromo-3-Chloropropane	0.0200	0.0166		mg/Kg		83	65 - 129
1,2-Dichlorobenzene	0.0200	0.0184		mg/Kg		92	80 - 121
1,2-Dichloroethane	0.0200	0.0200		mg/Kg		100	68 - 120
1,2-Dichloropropane	0.0200	0.0207		mg/Kg		103	77 - 124
1,3-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	79 - 124
1,4-Dichlorobenzene	0.0200	0.0185		mg/Kg		92	79 - 121
1,4-Dioxane	0.400	0.365		mg/Kg		91	67 - 150
2-Butanone (MEK)	0.100	0.0926		mg/Kg		93	61 - 140
2-Hexanone	0.100	0.0978		mg/Kg		98	78 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0984		mg/Kg		98	80 - 120
Acetone	0.100	0.0821		mg/Kg		82	75 - 120
Benzene	0.0200	0.0197		mg/Kg		98	75 - 127
Bromoform	0.0200	0.0191		mg/Kg		96	19 - 150
Bromomethane	0.0200	0.0204		mg/Kg		102	59 - 136
Carbon disulfide	0.0200	0.0224		mg/Kg		112	74 - 130
Carbon tetrachloride	0.0200	0.0223		mg/Kg		112	77 - 138
Chlorobenzene	0.0200	0.0193		mg/Kg		97	80 - 120
Chlorobromomethane	0.0200	0.0207		mg/Kg		104	80 - 125
Chlorodibromomethane	0.0200	0.0188		mg/Kg		94	67 - 143
Chloroethane	0.0200	0.0210		mg/Kg		105	50 - 139
Chloroform	0.0200	0.0219		mg/Kg		109	80 - 122
Chloromethane	0.0200	0.0203		mg/Kg		101	66 - 128
cis-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0188		mg/Kg		94	75 - 124

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-624520/3
Matrix: Solid
Analysis Batch: 624520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	0.0200	0.0224		mg/Kg		112	67 - 135
Dichlorobromomethane	0.0200	0.0197		mg/Kg		99	76 - 129
Dichlorodifluoromethane	0.0200	0.0163		mg/Kg		82	72 - 127
Ethylbenzene	0.0200	0.0197		mg/Kg		99	79 - 124
Ethylene Dibromide	0.0200	0.0182		mg/Kg		91	80 - 122
Isopropylbenzene	0.0200	0.0204		mg/Kg		102	80 - 125
Methyl acetate	0.0400	0.0433		mg/Kg		108	73 - 123
Methyl tert-butyl ether	0.0200	0.0209		mg/Kg		104	80 - 120
Methylcyclohexane	0.0200	0.0219		mg/Kg		110	71 - 137
Methylene Chloride	0.0200	0.0198		mg/Kg		99	79 - 128
m-Xylene & p-Xylene	0.0200	0.0206		mg/Kg		103	79 - 121
o-Xylene	0.0200	0.0192		mg/Kg		96	79 - 123
Styrene	0.0200	0.0204		mg/Kg		102	78 - 123
Tetrachloroethene	0.0200	0.0190		mg/Kg		95	73 - 130
Toluene	0.0200	0.0194		mg/Kg		97	75 - 122
trans-1,2-Dichloroethene	0.0200	0.0208		mg/Kg		104	80 - 129
trans-1,3-Dichloropropene	0.0200	0.0175		mg/Kg		88	72 - 121
Trichloroethene	0.0200	0.0201		mg/Kg		101	79 - 122
Trichlorofluoromethane	0.0200	0.0196		mg/Kg		98	68 - 136
Vinyl chloride	0.0200	0.0211		mg/Kg		106	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		78 - 135
4-Bromofluorobenzene	94		67 - 126
Dibromofluoromethane (Surr)	103		61 - 149
Toluene-d8 (Surr)	99		73 - 121

Lab Sample ID: LCSD 460-624520/4
Matrix: Solid
Analysis Batch: 624520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0218		mg/Kg		109	80 - 125	2	30
1,1,1,2-Tetrachloroethane	0.0200	0.0195		mg/Kg		97	72 - 131	5	30
1,1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0219		mg/Kg		109	78 - 132	3	30
1,1,1,2-Trichloroethane	0.0200	0.0190		mg/Kg		95	76 - 124	7	30
1,1-Dichloroethane	0.0200	0.0220		mg/Kg		110	80 - 124	1	30
1,1-Dichloroethene	0.0200	0.0232		mg/Kg		116	79 - 132	11	30
1,2,3-Trichlorobenzene	0.0200	0.0191		mg/Kg		96	75 - 123	1	30
1,2,4-Trichlorobenzene	0.0200	0.0199		mg/Kg		99	74 - 124	1	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0184		mg/Kg		92	65 - 129	10	30
1,2-Dichlorobenzene	0.0200	0.0185		mg/Kg		93	80 - 121	1	30
1,2-Dichloroethane	0.0200	0.0212		mg/Kg		106	68 - 120	6	30
1,2-Dichloropropane	0.0200	0.0217		mg/Kg		108	77 - 124	5	30
1,3-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	79 - 124	2	30
1,4-Dichlorobenzene	0.0200	0.0189		mg/Kg		94	79 - 121	2	30
1,4-Dioxane	0.400	0.450		mg/Kg		113	67 - 150	21	30
2-Butanone (MEK)	0.100	0.0951		mg/Kg		95	61 - 140	3	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-624520/4
Matrix: Solid
Analysis Batch: 624520

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	0.100	0.0991		mg/Kg		99	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0999		mg/Kg		100	80 - 120	1	30
Acetone	0.100	0.0882		mg/Kg		88	75 - 120	7	30
Benzene	0.0200	0.0199		mg/Kg		99	75 - 127	1	30
Bromoform	0.0200	0.0186		mg/Kg		93	19 - 150	3	30
Bromomethane	0.0200	0.0226		mg/Kg		113	59 - 136	10	30
Carbon disulfide	0.0200	0.0227		mg/Kg		114	74 - 130	1	30
Carbon tetrachloride	0.0200	0.0225		mg/Kg		113	77 - 138	1	30
Chlorobenzene	0.0200	0.0186		mg/Kg		93	80 - 120	4	30
Chlorobromomethane	0.0200	0.0202		mg/Kg		101	80 - 125	3	30
Chlorodibromomethane	0.0200	0.0192		mg/Kg		96	67 - 143	2	30
Chloroethane	0.0200	0.0231		mg/Kg		116	50 - 139	9	30
Chloroform	0.0200	0.0222		mg/Kg		111	80 - 122	2	30
Chloromethane	0.0200	0.0232		mg/Kg		116	66 - 128	13	30
cis-1,2-Dichloroethene	0.0200	0.0222		mg/Kg		111	80 - 123	4	30
cis-1,3-Dichloropropene	0.0200	0.0193		mg/Kg		97	75 - 124	3	30
Cyclohexane	0.0200	0.0228		mg/Kg		114	67 - 135	2	30
Dichlorobromomethane	0.0200	0.0209		mg/Kg		104	76 - 129	6	30
Dichlorodifluoromethane	0.0200	0.0184		mg/Kg		92	72 - 127	12	30
Ethylbenzene	0.0200	0.0202		mg/Kg		101	79 - 124	2	30
Ethylene Dibromide	0.0200	0.0185		mg/Kg		92	80 - 122	1	30
Isopropylbenzene	0.0200	0.0204		mg/Kg		102	80 - 125	0	30
Methyl acetate	0.0400	0.0478		mg/Kg		120	73 - 123	10	30
Methyl tert-butyl ether	0.0200	0.0232		mg/Kg		116	80 - 120	11	30
Methylcyclohexane	0.0200	0.0231		mg/Kg		116	71 - 137	5	30
Methylene Chloride	0.0200	0.0208		mg/Kg		104	79 - 128	5	30
m-Xylene & p-Xylene	0.0200	0.0202		mg/Kg		101	79 - 121	2	30
o-Xylene	0.0200	0.0196		mg/Kg		98	79 - 123	2	30
Styrene	0.0200	0.0203		mg/Kg		102	78 - 123	1	30
Tetrachloroethene	0.0200	0.0193		mg/Kg		97	73 - 130	1	30
Toluene	0.0200	0.0198		mg/Kg		99	75 - 122	2	30
trans-1,2-Dichloroethene	0.0200	0.0224		mg/Kg		112	80 - 129	7	30
trans-1,3-Dichloropropene	0.0200	0.0193		mg/Kg		96	72 - 121	10	30
Trichloroethene	0.0200	0.0209		mg/Kg		105	79 - 122	4	30
Trichlorofluoromethane	0.0200	0.0230		mg/Kg		115	68 - 136	16	30
Vinyl chloride	0.0200	0.0234		mg/Kg		117	70 - 134	10	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	114		78 - 135
4-Bromofluorobenzene	96		67 - 126
Dibromofluoromethane (Surr)	108		61 - 149
Toluene-d8 (Surr)	99		73 - 121

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-625335/8
Matrix: Solid
Analysis Batch: 625335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	0.0010	U	0.0010	0.00023	mg/Kg			07/17/19 22:53	1
1,1,2,2-Tetrachloroethane	0.0010	U	0.0010	0.00021	mg/Kg			07/17/19 22:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0010	U	0.0010	0.00030	mg/Kg			07/17/19 22:53	1
1,1,2-Trichloroethane	0.0010	U	0.0010	0.00018	mg/Kg			07/17/19 22:53	1
1,1-Dichloroethane	0.0010	U	0.0010	0.00021	mg/Kg			07/17/19 22:53	1
1,1-Dichloroethene	0.0010	U	0.0010	0.00023	mg/Kg			07/17/19 22:53	1
1,2,3-Trichlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			07/17/19 22:53	1
1,2,4-Trichlorobenzene	0.0010	U	0.0010	0.00036	mg/Kg			07/17/19 22:53	1
1,2-Dibromo-3-Chloropropane	0.0010	U	0.0010	0.00046	mg/Kg			07/17/19 22:53	1
1,2-Dichlorobenzene	0.0010	U	0.0010	0.00014	mg/Kg			07/17/19 22:53	1
1,2-Dichloroethane	0.0010	U	0.0010	0.00030	mg/Kg			07/17/19 22:53	1
1,2-Dichloropropane	0.0010	U	0.0010	0.00042	mg/Kg			07/17/19 22:53	1
1,3-Dichlorobenzene	0.0010	U	0.0010	0.00016	mg/Kg			07/17/19 22:53	1
1,4-Dichlorobenzene	0.0010	U	0.0010	0.00023	mg/Kg			07/17/19 22:53	1
1,4-Dioxane	0.020	U	0.020	0.0092	mg/Kg			07/17/19 22:53	1
2-Butanone (MEK)	0.0050	U	0.0050	0.0027	mg/Kg			07/17/19 22:53	1
2-Hexanone	0.0050	U	0.0050	0.0017	mg/Kg			07/17/19 22:53	1
4-Methyl-2-pentanone (MIBK)	0.0050	U	0.0050	0.0016	mg/Kg			07/17/19 22:53	1
Acetone	0.0060	U	0.0060	0.0057	mg/Kg			07/17/19 22:53	1
Benzene	0.0010	U	0.0010	0.00026	mg/Kg			07/17/19 22:53	1
Bromoform	0.0010	U	0.0010	0.00043	mg/Kg			07/17/19 22:53	1
Bromomethane	0.0010	U	0.0010	0.00047	mg/Kg			07/17/19 22:53	1
Carbon disulfide	0.0010	U	0.0010	0.00027	mg/Kg			07/17/19 22:53	1
Carbon tetrachloride	0.0010	U	0.0010	0.00039	mg/Kg			07/17/19 22:53	1
Chlorobenzene	0.0010	U	0.0010	0.00018	mg/Kg			07/17/19 22:53	1
Chlorobromomethane	0.0010	U	0.0010	0.00028	mg/Kg			07/17/19 22:53	1
Chlorodibromomethane	0.0010	U	0.0010	0.00019	mg/Kg			07/17/19 22:53	1
Chloroethane	0.0010	U	0.0010	0.00052	mg/Kg			07/17/19 22:53	1
Chloroform	0.0010	U	0.0010	0.00032	mg/Kg			07/17/19 22:53	1
Chloromethane	0.0010	U	0.0010	0.00044	mg/Kg			07/17/19 22:53	1
cis-1,2-Dichloroethene	0.0010	U	0.0010	0.00015	mg/Kg			07/17/19 22:53	1
cis-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			07/17/19 22:53	1
Cyclohexane	0.0010	U	0.0010	0.00022	mg/Kg			07/17/19 22:53	1
Dichlorobromomethane	0.0010	U	0.0010	0.00026	mg/Kg			07/17/19 22:53	1
Dichlorodifluoromethane	0.0010	U	0.0010	0.00034	mg/Kg			07/17/19 22:53	1
Ethylbenzene	0.0010	U	0.0010	0.00020	mg/Kg			07/17/19 22:53	1
Ethylene Dibromide	0.0010	U	0.0010	0.00018	mg/Kg			07/17/19 22:53	1
Isopropylbenzene	0.0010	U	0.0010	0.00013	mg/Kg			07/17/19 22:53	1
Methyl acetate	0.0050	U	0.0050	0.0043	mg/Kg			07/17/19 22:53	1
Methyl tert-butyl ether	0.0010	U	0.0010	0.00013	mg/Kg			07/17/19 22:53	1
Methylcyclohexane	0.0010	U	0.0010	0.00050	mg/Kg			07/17/19 22:53	1
Methylene Chloride	0.0010	U	0.0010	0.00046	mg/Kg			07/17/19 22:53	1
m-Xylene & p-Xylene	0.0010	U	0.0010	0.00017	mg/Kg			07/17/19 22:53	1
o-Xylene	0.0010	U	0.0010	0.00019	mg/Kg			07/17/19 22:53	1
Styrene	0.0010	U	0.0010	0.00028	mg/Kg			07/17/19 22:53	1
Tetrachloroethene	0.0010	U	0.0010	0.00014	mg/Kg			07/17/19 22:53	1
Toluene	0.0010	U	0.0010	0.00023	mg/Kg			07/17/19 22:53	1
trans-1,2-Dichloroethene	0.0010	U	0.0010	0.00025	mg/Kg			07/17/19 22:53	1

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-625335/8
Matrix: Solid
Analysis Batch: 625335

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	0.0010	U	0.0010	0.00027	mg/Kg			07/17/19 22:53	1
Trichloroethene	0.0010	U	0.0010	0.00014	mg/Kg			07/17/19 22:53	1
Trichlorofluoromethane	0.0010	U	0.0010	0.00041	mg/Kg			07/17/19 22:53	1
Vinyl chloride	0.0010	U	0.0010	0.00055	mg/Kg			07/17/19 22:53	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		78 - 135		07/17/19 22:53	1
4-Bromofluorobenzene	100		67 - 126		07/17/19 22:53	1
Dibromofluoromethane (Surr)	99		61 - 149		07/17/19 22:53	1
Toluene-d8 (Surr)	99		73 - 121		07/17/19 22:53	1

Lab Sample ID: LCS 460-625335/3
Matrix: Solid
Analysis Batch: 625335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1-Trichloroethane	0.0200	0.0227		mg/Kg		113	80 - 125
1,1,2,2-Tetrachloroethane	0.0200	0.0205		mg/Kg		103	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0228		mg/Kg		114	78 - 132
1,1,2-Trichloroethane	0.0200	0.0209		mg/Kg		105	76 - 124
1,1-Dichloroethane	0.0200	0.0226		mg/Kg		113	80 - 124
1,1-Dichloroethene	0.0200	0.0217		mg/Kg		109	79 - 132
1,2,3-Trichlorobenzene	0.0200	0.0207		mg/Kg		103	75 - 123
1,2,4-Trichlorobenzene	0.0200	0.0199		mg/Kg		100	74 - 124
1,2-Dibromo-3-Chloropropane	0.0200	0.0209		mg/Kg		105	65 - 129
1,2-Dichlorobenzene	0.0200	0.0203		mg/Kg		102	80 - 121
1,2-Dichloroethane	0.0200	0.0218		mg/Kg		109	68 - 120
1,2-Dichloropropane	0.0200	0.0215		mg/Kg		108	77 - 124
1,3-Dichlorobenzene	0.0200	0.0199		mg/Kg		100	79 - 124
1,4-Dichlorobenzene	0.0200	0.0200		mg/Kg		100	79 - 121
1,4-Dioxane	0.400	0.364		mg/Kg		91	67 - 150
2-Butanone (MEK)	0.100	0.0893		mg/Kg		89	61 - 140
2-Hexanone	0.100	0.0986		mg/Kg		99	78 - 120
4-Methyl-2-pentanone (MIBK)	0.100	0.0996		mg/Kg		100	80 - 120
Acetone	0.100	0.104		mg/Kg		104	75 - 120
Benzene	0.0200	0.0224		mg/Kg		112	75 - 127
Bromoform	0.0200	0.0177		mg/Kg		89	19 - 150
Bromomethane	0.0200	0.0230		mg/Kg		115	59 - 136
Carbon disulfide	0.0200	0.0230		mg/Kg		115	74 - 130
Carbon tetrachloride	0.0200	0.0209		mg/Kg		104	77 - 138
Chlorobenzene	0.0200	0.0203		mg/Kg		102	80 - 120
Chlorobromomethane	0.0200	0.0199		mg/Kg		100	80 - 125
Chlorodibromomethane	0.0200	0.0186		mg/Kg		93	67 - 143
Chloroethane	0.0200	0.0226		mg/Kg		113	50 - 139
Chloroform	0.0200	0.0217		mg/Kg		109	80 - 122
Chloromethane	0.0200	0.0242		mg/Kg		121	66 - 128
cis-1,2-Dichloroethene	0.0200	0.0214		mg/Kg		107	80 - 123
cis-1,3-Dichloropropene	0.0200	0.0212		mg/Kg		106	75 - 124

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-625335/3
Matrix: Solid
Analysis Batch: 625335

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	0.0200	0.0224		mg/Kg		112	67 - 135
Dichlorobromomethane	0.0200	0.0203		mg/Kg		102	76 - 129
Dichlorodifluoromethane	0.0200	0.0249		mg/Kg		124	72 - 127
Ethylbenzene	0.0200	0.0204		mg/Kg		102	79 - 124
Ethylene Dibromide	0.0200	0.0203		mg/Kg		101	80 - 122
Isopropylbenzene	0.0200	0.0213		mg/Kg		107	80 - 125
Methyl acetate	0.0400	0.0426		mg/Kg		107	73 - 123
Methyl tert-butyl ether	0.0200	0.0220		mg/Kg		110	80 - 120
Methylcyclohexane	0.0200	0.0222		mg/Kg		111	71 - 137
Methylene Chloride	0.0200	0.0211		mg/Kg		106	79 - 128
m-Xylene & p-Xylene	0.0200	0.0203		mg/Kg		101	79 - 121
o-Xylene	0.0200	0.0208		mg/Kg		104	79 - 123
Styrene	0.0200	0.0209		mg/Kg		105	78 - 123
Tetrachloroethene	0.0200	0.0204		mg/Kg		102	73 - 130
Toluene	0.0200	0.0211		mg/Kg		106	75 - 122
trans-1,2-Dichloroethene	0.0200	0.0216		mg/Kg		108	80 - 129
trans-1,3-Dichloropropene	0.0200	0.0209		mg/Kg		105	72 - 121
Trichloroethene	0.0200	0.0213		mg/Kg		106	79 - 122
Trichlorofluoromethane	0.0200	0.0228		mg/Kg		114	68 - 136
Vinyl chloride	0.0200	0.0242		mg/Kg		121	70 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		78 - 135
4-Bromofluorobenzene	95		67 - 126
Dibromofluoromethane (Surr)	101		61 - 149
Toluene-d8 (Surr)	102		73 - 121

Lab Sample ID: LCSD 460-625335/4
Matrix: Solid
Analysis Batch: 625335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.0200	0.0203		mg/Kg		102	80 - 125	11	30
1,1,1,2-Tetrachloroethane	0.0200	0.0195		mg/Kg		98	72 - 131	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	0.0200	0.0209		mg/Kg		105	78 - 132	9	30
1,1,2-Trichloroethane	0.0200	0.0198		mg/Kg		99	76 - 124	6	30
1,1-Dichloroethane	0.0200	0.0208		mg/Kg		104	80 - 124	8	30
1,1-Dichloroethene	0.0200	0.0196		mg/Kg		98	79 - 132	10	30
1,2,3-Trichlorobenzene	0.0200	0.0195		mg/Kg		98	75 - 123	6	30
1,2,4-Trichlorobenzene	0.0200	0.0188		mg/Kg		94	74 - 124	6	30
1,2-Dibromo-3-Chloropropane	0.0200	0.0199		mg/Kg		99	65 - 129	5	30
1,2-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	80 - 121	7	30
1,2-Dichloroethane	0.0200	0.0207		mg/Kg		103	68 - 120	5	30
1,2-Dichloropropane	0.0200	0.0203		mg/Kg		102	77 - 124	6	30
1,3-Dichlorobenzene	0.0200	0.0190		mg/Kg		95	79 - 124	5	30
1,4-Dichlorobenzene	0.0200	0.0189		mg/Kg		94	79 - 121	6	30
1,4-Dioxane	0.400	0.343		mg/Kg		86	67 - 150	6	30
2-Butanone (MEK)	0.100	0.0837		mg/Kg		84	61 - 140	6	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-625335/4
Matrix: Solid
Analysis Batch: 625335

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Hexanone	0.100	0.0938		mg/Kg		94	78 - 120	5	30
4-Methyl-2-pentanone (MIBK)	0.100	0.0944		mg/Kg		94	80 - 120	5	30
Acetone	0.100	0.0897		mg/Kg		90	75 - 120	15	30
Benzene	0.0200	0.0208		mg/Kg		104	75 - 127	7	30
Bromoform	0.0200	0.0168		mg/Kg		84	19 - 150	5	30
Bromomethane	0.0200	0.0212		mg/Kg		106	59 - 136	8	30
Carbon disulfide	0.0200	0.0207		mg/Kg		103	74 - 130	10	30
Carbon tetrachloride	0.0200	0.0188		mg/Kg		94	77 - 138	11	30
Chlorobenzene	0.0200	0.0191		mg/Kg		95	80 - 120	6	30
Chlorobromomethane	0.0200	0.0186		mg/Kg		93	80 - 125	7	30
Chlorodibromomethane	0.0200	0.0179		mg/Kg		89	67 - 143	4	30
Chloroethane	0.0200	0.0207		mg/Kg		104	50 - 139	9	30
Chloroform	0.0200	0.0200		mg/Kg		100	80 - 122	8	30
Chloromethane	0.0200	0.0226		mg/Kg		113	66 - 128	7	30
cis-1,2-Dichloroethene	0.0200	0.0198		mg/Kg		99	80 - 123	8	30
cis-1,3-Dichloropropene	0.0200	0.0201		mg/Kg		100	75 - 124	5	30
Cyclohexane	0.0200	0.0205		mg/Kg		103	67 - 135	9	30
Dichlorobromomethane	0.0200	0.0192		mg/Kg		96	76 - 129	5	30
Dichlorodifluoromethane	0.0200	0.0231		mg/Kg		115	72 - 127	8	30
Ethylbenzene	0.0200	0.0191		mg/Kg		96	79 - 124	7	30
Ethylene Dibromide	0.0200	0.0192		mg/Kg		96	80 - 122	6	30
Isopropylbenzene	0.0200	0.0200		mg/Kg		100	80 - 125	6	30
Methyl acetate	0.0400	0.0403		mg/Kg		101	73 - 123	6	30
Methyl tert-butyl ether	0.0200	0.0211		mg/Kg		105	80 - 120	4	30
Methylcyclohexane	0.0200	0.0197		mg/Kg		98	71 - 137	12	30
Methylene Chloride	0.0200	0.0194		mg/Kg		97	79 - 128	9	30
m-Xylene & p-Xylene	0.0200	0.0191		mg/Kg		95	79 - 121	6	30
o-Xylene	0.0200	0.0194		mg/Kg		97	79 - 123	7	30
Styrene	0.0200	0.0196		mg/Kg		98	78 - 123	7	30
Tetrachloroethene	0.0200	0.0189		mg/Kg		95	73 - 130	7	30
Toluene	0.0200	0.0197		mg/Kg		99	75 - 122	7	30
trans-1,2-Dichloroethene	0.0200	0.0200		mg/Kg		100	80 - 129	8	30
trans-1,3-Dichloropropene	0.0200	0.0199		mg/Kg		100	72 - 121	5	30
Trichloroethene	0.0200	0.0197		mg/Kg		99	79 - 122	8	30
Trichlorofluoromethane	0.0200	0.0207		mg/Kg		103	68 - 136	10	30
Vinyl chloride	0.0200	0.0226		mg/Kg		113	70 - 134	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	103		78 - 135
4-Bromofluorobenzene	93		67 - 126
Dibromofluoromethane (Surr)	98		61 - 149
Toluene-d8 (Surr)	100		73 - 121

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-623796/1-A
 Matrix: Solid
 Analysis Batch: 623961

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 623796

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	0.33	U	0.33	0.0044	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.0043	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.011	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.017	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,4-Dichlorophenol	0.13	U	0.13	0.0070	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,4-Dimethylphenol	0.33	U	0.33	0.015	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,4-Dinitrotoluene	0.067	U	0.067	0.017	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2,6-Dinitrotoluene	0.067	U	0.067	0.011	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2-Chlorophenol	0.33	U	0.33	0.0046	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2-Methylnaphthalene	0.33	U	0.33	0.0041	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2-Methylphenol	0.33	U	0.33	0.0053	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2-Nitroaniline	0.33	U	0.33	0.012	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
2-Nitrophenol	0.33	U	0.33	0.011	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
3-Nitroaniline	0.33	U	0.33	0.018	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.054	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.0043	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.0055	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Chloroaniline	0.33	U	0.33	0.023	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.0052	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Methylphenol	0.33	U	0.33	0.0056	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Nitroaniline	0.33	U	0.33	0.012	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Acenaphthene	0.33	U	0.33	0.024	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Acenaphthylene	0.33	U	0.33	0.0034	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Acetophenone	0.33	U	0.33	0.0053	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Anthracene	0.33	U	0.33	0.0037	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Atrazine	0.13	U	0.13	0.0083	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Benzaldehyde	0.33	U	0.33	0.014	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0098	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.011	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.0040	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Caprolactam	0.33	U	0.33	0.020	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Carbazole	0.33	U	0.33	0.0039	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Dibenzofuran	0.33	U	0.33	0.0046	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Diethyl phthalate	0.33	U	0.33	0.0048	mg/Kg		07/11/19 08:56	07/11/19 21:09	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-623796/1-A
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623796

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Dimethyl phthalate	0.33	U	0.33	0.0040	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Di-n-butyl phthalate	0.33	U	0.33	0.058	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Fluoranthene	0.33	U	0.33	0.0043	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Fluorene	0.33	U	0.33	0.0045	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Hexachlorobenzene	0.033	U	0.033	0.0048	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Hexachloroethane	0.033	U	0.033	0.0051	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Isophorone	0.13	U	0.13	0.0087	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Nitrobenzene	0.033	U	0.033	0.0079	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.0053	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.0063	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Phenol	0.33	U	0.33	0.0049	mg/Kg		07/11/19 08:56	07/11/19 21:09	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		07/11/19 08:56	07/11/19 21:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	85		10 - 137	07/11/19 08:56	07/11/19 21:09	1
2-Fluorobiphenyl	85		29 - 107	07/11/19 08:56	07/11/19 21:09	1
2-Fluorophenol (Surr)	81		20 - 115	07/11/19 08:56	07/11/19 21:09	1
Nitrobenzene-d5 (Surr)	79		25 - 113	07/11/19 08:56	07/11/19 21:09	1
Phenol-d5 (Surr)	82		28 - 109	07/11/19 08:56	07/11/19 21:09	1
Terphenyl-d14 (Surr)	100		27 - 123	07/11/19 08:56	07/11/19 21:09	1

Lab Sample ID: LCS 460-623796/2-A
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4,5-Tetrachlorobenzene	3.33	2.88		mg/Kg		86	57 - 112
2,2'-oxybis[1-chloropropane]	3.33	2.72		mg/Kg		82	39 - 122
2,3,4,6-Tetrachlorophenol	3.33	2.94		mg/Kg		88	60 - 114
2,4,5-Trichlorophenol	3.33	2.94		mg/Kg		88	60 - 106
2,4,6-Trichlorophenol	3.33	2.96		mg/Kg		89	62 - 110
2,4-Dichlorophenol	3.33	3.06		mg/Kg		92	61 - 103
2,4-Dimethylphenol	3.33	2.85		mg/Kg		85	63 - 101
2,4-Dinitrophenol	6.67	5.52		mg/Kg		83	56 - 122
2,4-Dinitrotoluene	3.33	2.96		mg/Kg		89	66 - 122
2,6-Dinitrotoluene	3.33	3.08		mg/Kg		92	70 - 114
2-Chloronaphthalene	3.33	2.95		mg/Kg		88	63 - 107
2-Chlorophenol	3.33	2.83		mg/Kg		85	62 - 97
2-Methylnaphthalene	3.33	2.91		mg/Kg		87	65 - 104
2-Methylphenol	3.33	2.88		mg/Kg		86	61 - 103

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-623796/2-A

Matrix: Solid

Analysis Batch: 623961

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 623796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	3.33	2.97		mg/Kg		89	57 - 114
2-Nitrophenol	3.33	2.84		mg/Kg		85	65 - 104
3,3'-Dichlorobenzidine	3.33	2.00		mg/Kg		60	18 - 88
3-Nitroaniline	3.33	2.53		mg/Kg		76	30 - 94
4,6-Dinitro-2-methylphenol	6.67	6.83		mg/Kg		102	67 - 120
4-Bromophenyl phenyl ether	3.33	2.96		mg/Kg		89	59 - 122
4-Chloro-3-methylphenol	3.33	2.92		mg/Kg		87	62 - 111
4-Chloroaniline	3.33	2.59		mg/Kg		78	18 - 94
4-Chlorophenyl phenyl ether	3.33	2.95		mg/Kg		89	66 - 110
4-Methylphenol	3.33	2.83		mg/Kg		85	61 - 105
4-Nitroaniline	3.33	2.74		mg/Kg		82	49 - 118
4-Nitrophenol	6.67	5.55		mg/Kg		83	43 - 141
Acenaphthene	3.33	2.88		mg/Kg		86	62 - 108
Acenaphthylene	3.33	2.93		mg/Kg		88	67 - 107
Acetophenone	3.33	2.73		mg/Kg		82	60 - 109
Anthracene	3.33	3.05		mg/Kg		92	69 - 111
Benzo[a]anthracene	3.33	3.05		mg/Kg		92	68 - 110
Benzo[a]pyrene	3.33	2.92		mg/Kg		88	72 - 115
Benzo[b]fluoranthene	3.33	2.99		mg/Kg		90	69 - 119
Benzo[g,h,i]perylene	3.33	2.86		mg/Kg		86	54 - 128
Benzo[k]fluoranthene	3.33	3.17		mg/Kg		95	70 - 115
Bis(2-chloroethoxy)methane	3.33	2.86		mg/Kg		86	65 - 106
Bis(2-chloroethyl)ether	3.33	2.89		mg/Kg		87	64 - 105
Bis(2-ethylhexyl) phthalate	3.33	3.18		mg/Kg		95	63 - 125
Butyl benzyl phthalate	3.33	3.37		mg/Kg		101	65 - 125
Carbazole	3.33	2.95		mg/Kg		88	66 - 115
Chrysene	3.33	3.28		mg/Kg		99	70 - 111
Dibenz(a,h)anthracene	3.33	2.88		mg/Kg		86	60 - 130
Dibenzofuran	3.33	2.94		mg/Kg		88	67 - 107
Diethyl phthalate	3.33	2.84		mg/Kg		85	66 - 117
Dimethyl phthalate	3.33	2.87		mg/Kg		86	68 - 112
Di-n-butyl phthalate	3.33	3.02		mg/Kg		91	67 - 119
Di-n-octyl phthalate	3.33	3.14		mg/Kg		94	57 - 138
Fluoranthene	3.33	2.79		mg/Kg		84	64 - 114
Fluorene	3.33	2.95		mg/Kg		88	66 - 110
Hexachlorobenzene	3.33	3.22		mg/Kg		96	57 - 128
Hexachlorobutadiene	3.33	2.79		mg/Kg		84	60 - 108
Hexachlorocyclopentadiene	3.33	3.04		mg/Kg		91	50 - 129
Hexachloroethane	3.33	2.75		mg/Kg		83	63 - 99
Indeno[1,2,3-cd]pyrene	3.33	2.95		mg/Kg		89	53 - 137
Isophorone	3.33	2.89		mg/Kg		87	68 - 111
Naphthalene	3.33	2.91		mg/Kg		87	65 - 102
Nitrobenzene	3.33	2.86		mg/Kg		86	66 - 108
N-Nitrosodi-n-propylamine	3.33	2.93		mg/Kg		88	63 - 117
N-Nitrosodiphenylamine	3.33	3.08		mg/Kg		92	65 - 114
Pentachlorophenol	6.67	6.32		mg/Kg		95	56 - 116
Phenanthrene	3.33	3.04		mg/Kg		91	68 - 111
Phenol	3.33	2.88		mg/Kg		86	58 - 103
Pyrene	3.33	3.53		mg/Kg		106	64 - 121

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	82		10 - 137
2-Fluorobiphenyl	80		29 - 107
2-Fluorophenol (Surr)	76		20 - 115
Nitrobenzene-d5 (Surr)	77		25 - 113
Phenol-d5 (Surr)	77		28 - 109
Terphenyl-d14 (Surr)	91		27 - 123

Lab Sample ID: LCS 460-623796/4-A
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623796
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Atrazine	6.67	3.90	*	mg/Kg		59	62 - 137
Benzaldehyde	6.67	7.74	*	mg/Kg		116	52 - 113
Caprolactam	6.67	10.0	*	mg/Kg		151	53 - 148

Surrogate	LCS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	83		10 - 137
2-Fluorobiphenyl	80		29 - 107
2-Fluorophenol (Surr)	82		20 - 115
Nitrobenzene-d5 (Surr)	78		25 - 113
Phenol-d5 (Surr)	83		28 - 109
Terphenyl-d14 (Surr)	100		27 - 123

Lab Sample ID: LCSD 460-623796/3-A
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623796
%Rec.
RPD

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1'-Biphenyl	3.33	2.96		mg/Kg		89	64 - 108	0	30
1,2,4,5-Tetrachlorobenzene	3.33	2.93		mg/Kg		88	57 - 112	2	30
2,2'-oxybis[1-chloropropane]	3.33	2.76		mg/Kg		83	39 - 122	1	30
2,3,4,6-Tetrachlorophenol	3.33	2.84		mg/Kg		85	60 - 114	3	30
2,4,5-Trichlorophenol	3.33	3.02		mg/Kg		91	60 - 106	3	30
2,4,6-Trichlorophenol	3.33	2.97		mg/Kg		89	62 - 110	0	30
2,4-Dichlorophenol	3.33	2.99		mg/Kg		90	61 - 103	2	30
2,4-Dimethylphenol	3.33	2.86		mg/Kg		86	63 - 101	1	30
2,4-Dinitrophenol	6.67	5.55		mg/Kg		83	56 - 122	1	30
2,4-Dinitrotoluene	3.33	2.96		mg/Kg		89	66 - 122	0	30
2,6-Dinitrotoluene	3.33	2.98		mg/Kg		89	70 - 114	3	30
2-Chloronaphthalene	3.33	2.96		mg/Kg		89	63 - 107	0	30
2-Chlorophenol	3.33	2.90		mg/Kg		87	62 - 97	2	30
2-Methylnaphthalene	3.33	2.93		mg/Kg		88	65 - 104	1	30
2-Methylphenol	3.33	2.97		mg/Kg		89	61 - 103	3	30
2-Nitroaniline	3.33	2.95		mg/Kg		89	57 - 114	1	30
2-Nitrophenol	3.33	2.89		mg/Kg		87	65 - 104	2	30
3,3'-Dichlorobenzidine	3.33	2.02		mg/Kg		61	18 - 88	1	30
3-Nitroaniline	3.33	2.50		mg/Kg		75	30 - 94	1	30
4,6-Dinitro-2-methylphenol	6.67	7.09		mg/Kg		106	67 - 120	4	30
4-Bromophenyl phenyl ether	3.33	3.03		mg/Kg		91	59 - 122	2	30
4-Chloro-3-methylphenol	3.33	2.91		mg/Kg		87	62 - 111	0	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-623796/3-A

Matrix: Solid

Analysis Batch: 623961

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 623796

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chloroaniline	3.33	2.58		mg/Kg		77	18 - 94	1	30
4-Chlorophenyl phenyl ether	3.33	2.89		mg/Kg		87	66 - 110	2	30
4-Methylphenol	3.33	2.91		mg/Kg		87	61 - 105	3	30
4-Nitroaniline	3.33	2.72		mg/Kg		82	49 - 118	1	30
4-Nitrophenol	6.67	5.48		mg/Kg		82	43 - 141	1	30
Acenaphthene	3.33	2.81		mg/Kg		84	62 - 108	3	30
Acenaphthylene	3.33	2.92		mg/Kg		87	67 - 107	1	30
Acetophenone	3.33	2.79		mg/Kg		84	60 - 109	2	30
Anthracene	3.33	3.09		mg/Kg		93	69 - 111	1	30
Benzo[a]anthracene	3.33	3.14		mg/Kg		94	68 - 110	3	30
Benzo[a]pyrene	3.33	2.85		mg/Kg		86	72 - 115	2	30
Benzo[b]fluoranthene	3.33	3.16		mg/Kg		95	69 - 119	5	30
Benzo[g,h,i]perylene	3.33	2.83		mg/Kg		85	54 - 128	1	30
Benzo[k]fluoranthene	3.33	3.03		mg/Kg		91	70 - 115	5	30
Bis(2-chloroethoxy)methane	3.33	2.92		mg/Kg		88	65 - 106	2	30
Bis(2-chloroethyl)ether	3.33	2.95		mg/Kg		88	64 - 105	2	30
Bis(2-ethylhexyl) phthalate	3.33	3.24		mg/Kg		97	63 - 125	2	30
Butyl benzyl phthalate	3.33	3.35		mg/Kg		100	65 - 125	1	30
Carbazole	3.33	2.98		mg/Kg		89	66 - 115	1	30
Chrysene	3.33	3.22		mg/Kg		97	70 - 111	2	30
Dibenz(a,h)anthracene	3.33	2.89		mg/Kg		87	60 - 130	0	30
Dibenzofuran	3.33	2.89		mg/Kg		87	67 - 107	2	30
Diethyl phthalate	3.33	2.82		mg/Kg		84	66 - 117	1	30
Dimethyl phthalate	3.33	2.93		mg/Kg		88	68 - 112	2	30
Di-n-butyl phthalate	3.33	2.99		mg/Kg		90	67 - 119	1	30
Di-n-octyl phthalate	3.33	3.12		mg/Kg		94	57 - 138	1	30
Fluoranthene	3.33	2.83		mg/Kg		85	64 - 114	1	30
Fluorene	3.33	2.96		mg/Kg		89	66 - 110	0	30
Hexachlorobenzene	3.33	3.20		mg/Kg		96	57 - 128	1	30
Hexachlorobutadiene	3.33	2.78		mg/Kg		84	60 - 108	0	30
Hexachlorocyclopentadiene	3.33	3.00		mg/Kg		90	50 - 129	1	30
Hexachloroethane	3.33	2.83		mg/Kg		85	63 - 99	3	30
Indeno[1,2,3-cd]pyrene	3.33	3.00		mg/Kg		90	53 - 137	2	30
Isophorone	3.33	2.93		mg/Kg		88	68 - 111	1	30
Naphthalene	3.33	2.90		mg/Kg		87	65 - 102	0	30
Nitrobenzene	3.33	2.91		mg/Kg		87	66 - 108	2	30
N-Nitrosodi-n-propylamine	3.33	2.93		mg/Kg		88	63 - 117	0	30
N-Nitrosodiphenylamine	3.33	3.08		mg/Kg		92	65 - 114	0	30
Pentachlorophenol	6.67	6.46		mg/Kg		97	56 - 116	2	30
Phenanthrene	3.33	3.09		mg/Kg		93	68 - 111	1	30
Phenol	3.33	2.93		mg/Kg		88	58 - 103	2	30
Pyrene	3.33	3.49		mg/Kg		105	64 - 121	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	80		10 - 137
2-Fluorobiphenyl	79		29 - 107
2-Fluorophenol (Surr)	78		20 - 115
Nitrobenzene-d5 (Surr)	77		25 - 113

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-623796/3-A
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623796

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
Phenol-d5 (Surr)	76		28 - 109
Terphenyl-d14 (Surr)	90		27 - 123

Lab Sample ID: 460-186306-E-4-A MS
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623796

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	Limits
				Result	Qualifier				
1,1'-Biphenyl	0.34	U	3.42	2.79		mg/Kg	☼	81	64 - 108
1,2,4,5-Tetrachlorobenzene	0.34	U	3.42	2.66		mg/Kg	☼	78	57 - 112
2,2'-oxybis[1-chloropropane]	0.34	U	3.42	2.45		mg/Kg	☼	72	39 - 122
2,3,4,6-Tetrachlorophenol	0.34	U	3.42	2.63		mg/Kg	☼	77	60 - 114
2,4,5-Trichlorophenol	0.34	U	3.42	2.52		mg/Kg	☼	74	60 - 106
2,4,6-Trichlorophenol	0.14	U	3.42	2.88		mg/Kg	☼	84	62 - 110
2,4-Dichlorophenol	0.14	U	3.42	2.80		mg/Kg	☼	82	61 - 103
2,4-Dimethylphenol	0.34	U	3.42	2.64		mg/Kg	☼	77	63 - 101
2,4-Dinitrophenol	0.27	U	6.85	1.65	*	mg/Kg	☼	24	56 - 122
2,4-Dinitrotoluene	0.069	U	3.42	2.86		mg/Kg	☼	84	66 - 122
2,6-Dinitrotoluene	0.069	U	3.42	2.89		mg/Kg	☼	85	70 - 114
2-Chloronaphthalene	0.34	U	3.42	2.73		mg/Kg	☼	80	63 - 107
2-Chlorophenol	0.34	U	3.42	2.57		mg/Kg	☼	75	62 - 97
2-Methylnaphthalene	0.34	U	3.42	2.67		mg/Kg	☼	78	65 - 104
2-Methylphenol	0.34	U	3.42	2.65		mg/Kg	☼	77	61 - 103
2-Nitroaniline	0.34	U	3.42	2.82		mg/Kg	☼	82	57 - 114
2-Nitrophenol	0.34	U	3.42	2.60		mg/Kg	☼	76	65 - 104
3,3'-Dichlorobenzidine	0.14	U	3.42	2.41		mg/Kg	☼	70	18 - 88
3-Nitroaniline	0.34	U	3.42	2.60		mg/Kg	☼	76	30 - 94
4,6-Dinitro-2-methylphenol	0.27	U	6.85	4.10	*	mg/Kg	☼	60	67 - 120
4-Bromophenyl phenyl ether	0.34	U	3.42	2.86		mg/Kg	☼	84	59 - 122
4-Chloro-3-methylphenol	0.34	U	3.42	2.77		mg/Kg	☼	81	62 - 111
4-Chloroaniline	0.34	U	3.42	2.45		mg/Kg	☼	72	18 - 94
4-Chlorophenyl phenyl ether	0.34	U	3.42	2.73		mg/Kg	☼	80	66 - 110
4-Methylphenol	0.34	U	3.42	2.68		mg/Kg	☼	78	61 - 105
4-Nitroaniline	0.34	U	3.42	2.65		mg/Kg	☼	77	49 - 118
4-Nitrophenol	0.69	U	6.85	5.23		mg/Kg	☼	76	43 - 141
Acenaphthene	0.34	U	3.42	2.64		mg/Kg	☼	77	62 - 108
Acenaphthylene	0.34	U	3.42	2.81		mg/Kg	☼	82	67 - 107
Acetophenone	0.34	U	3.42	2.52		mg/Kg	☼	74	60 - 109
Anthracene	0.34	U	3.42	2.84		mg/Kg	☼	83	69 - 111
Atrazine	0.14	U *	6.85	2.67	*	mg/Kg	☼	39	62 - 137
Benzaldehyde	0.34	U *	6.85	5.05		mg/Kg	☼	74	52 - 113
Benzo[a]anthracene	0.034	U	3.42	2.91		mg/Kg	☼	85	68 - 110
Benzo[a]pyrene	0.034	U	3.42	2.73		mg/Kg	☼	80	72 - 115
Benzo[b]fluoranthene	0.034	U	3.42	2.91		mg/Kg	☼	85	69 - 119
Benzo[g,h,i]perylene	0.34	U	3.42	2.67		mg/Kg	☼	78	54 - 128
Benzo[k]fluoranthene	0.034	U	3.42	2.97		mg/Kg	☼	87	70 - 115
Bis(2-chloroethoxy)methane	0.34	U	3.42	2.64		mg/Kg	☼	77	65 - 106
Bis(2-chloroethyl)ether	0.034	U	3.42	2.55		mg/Kg	☼	75	64 - 105

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186306-E-4-A MS
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623796

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Bis(2-ethylhexyl) phthalate	0.34	U	3.42	3.03		mg/Kg	☼	89		63 - 125
Butyl benzyl phthalate	0.34	U	3.42	3.20		mg/Kg	☼	94		65 - 125
Caprolactam	0.34	U *	6.85	6.58		mg/Kg	☼	96		53 - 148
Carbazole	0.34	U	3.42	2.81		mg/Kg	☼	82		66 - 115
Chrysene	0.34	U	3.42	3.08		mg/Kg	☼	90		70 - 111
Dibenz(a,h)anthracene	0.034	U	3.42	2.69		mg/Kg	☼	78		60 - 130
Dibenzofuran	0.34	U	3.42	2.75		mg/Kg	☼	80		67 - 107
Diethyl phthalate	0.34	U	3.42	2.77		mg/Kg	☼	81		66 - 117
Dimethyl phthalate	0.34	U	3.42	2.77		mg/Kg	☼	81		68 - 112
Di-n-butyl phthalate	0.34	U	3.42	2.84		mg/Kg	☼	83		67 - 119
Di-n-octyl phthalate	0.34	U	3.42	3.00		mg/Kg	☼	88		57 - 138
Fluoranthene	0.34	U	3.42	2.71		mg/Kg	☼	79		64 - 114
Fluorene	0.34	U	3.42	2.78		mg/Kg	☼	81		66 - 110
Hexachlorobenzene	0.034	U	3.42	2.97		mg/Kg	☼	87		57 - 128
Hexachlorobutadiene	0.069	U	3.42	2.43		mg/Kg	☼	71		60 - 108
Hexachlorocyclopentadiene	0.34	U	3.42	2.68		mg/Kg	☼	78		50 - 129
Hexachloroethane	0.034	U	3.42	2.31		mg/Kg	☼	68		63 - 99
Indeno[1,2,3-cd]pyrene	0.034	U	3.42	2.79		mg/Kg	☼	81		53 - 137
Isophorone	0.14	U	3.42	2.68		mg/Kg	☼	78		68 - 111
Naphthalene	0.34	U	3.42	2.61		mg/Kg	☼	76		65 - 102
Nitrobenzene	0.034	U	3.42	2.57		mg/Kg	☼	75		66 - 108
N-Nitrosodi-n-propylamine	0.034	U	3.42	2.71		mg/Kg	☼	79		63 - 117
N-Nitrosodiphenylamine	0.34	U	3.42	2.92		mg/Kg	☼	85		65 - 114
Pentachlorophenol	0.27	U	6.85	4.35		mg/Kg	☼	64		56 - 116
Phenanthrene	0.34	U	3.42	2.88		mg/Kg	☼	84		68 - 111
Phenol	0.34	U	3.42	2.69		mg/Kg	☼	78		58 - 103
Pyrene	0.34	U	3.42	3.30		mg/Kg	☼	97		64 - 121

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	79		10 - 137
2-Fluorobiphenyl	78		29 - 107
2-Fluorophenol (Surr)	73		20 - 115
Nitrobenzene-d5 (Surr)	73		25 - 113
Phenol-d5 (Surr)	75		28 - 109
Terphenyl-d14 (Surr)	88		27 - 123

Lab Sample ID: 460-186306-E-4-B MSD
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623796

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	RPD
	Result	Qualifier		Result	Qualifier						RPD	Limit
1,1'-Biphenyl	0.34	U	3.43	2.63		mg/Kg	☼	77		64 - 108	6	30
1,2,4,5-Tetrachlorobenzene	0.34	U	3.43	2.54		mg/Kg	☼	74		57 - 112	5	30
2,2'-oxybis[1-chloropropane]	0.34	U	3.43	2.21		mg/Kg	☼	64		39 - 122	10	30
2,3,4,6-Tetrachlorophenol	0.34	U	3.43	2.46		mg/Kg	☼	72		60 - 114	7	30
2,4,5-Trichlorophenol	0.34	U	3.43	2.54		mg/Kg	☼	74		60 - 106	0	30
2,4,6-Trichlorophenol	0.14	U	3.43	2.67		mg/Kg	☼	78		62 - 110	7	30
2,4-Dichlorophenol	0.14	U	3.43	2.66		mg/Kg	☼	77		61 - 103	5	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186306-E-4-B MSD

Matrix: Solid

Analysis Batch: 623961

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 623796

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,4-Dimethylphenol	0.34	U	3.43	2.51		mg/Kg	☼	73	63 - 101	5	30
2,4-Dinitrophenol	0.27	U	6.86	2.03	*	mg/Kg	☼	30	56 - 122	21	30
2,4-Dinitrotoluene	0.069	U	3.43	2.71		mg/Kg	☼	79	66 - 122	6	30
2,6-Dinitrotoluene	0.069	U	3.43	2.72		mg/Kg	☼	79	70 - 114	6	30
2-Chloronaphthalene	0.34	U	3.43	2.64		mg/Kg	☼	77	63 - 107	3	30
2-Chlorophenol	0.34	U	3.43	2.38		mg/Kg	☼	69	62 - 97	8	30
2-Methylnaphthalene	0.34	U	3.43	2.50		mg/Kg	☼	73	65 - 104	6	30
2-Methylphenol	0.34	U	3.43	2.50		mg/Kg	☼	73	61 - 103	6	30
2-Nitroaniline	0.34	U	3.43	2.73		mg/Kg	☼	80	57 - 114	3	30
2-Nitrophenol	0.34	U	3.43	2.38		mg/Kg	☼	69	65 - 104	9	30
3,3'-Dichlorobenzidine	0.14	U	3.43	2.30		mg/Kg	☼	67	18 - 88	4	30
3-Nitroaniline	0.34	U	3.43	2.54		mg/Kg	☼	74	30 - 94	2	30
4,6-Dinitro-2-methylphenol	0.27	U	6.86	4.62		mg/Kg	☼	67	67 - 120	12	30
4-Bromophenyl phenyl ether	0.34	U	3.43	2.71		mg/Kg	☼	79	59 - 122	6	30
4-Chloro-3-methylphenol	0.34	U	3.43	2.59		mg/Kg	☼	76	62 - 111	7	30
4-Chloroaniline	0.34	U	3.43	2.33		mg/Kg	☼	68	18 - 94	5	30
4-Chlorophenyl phenyl ether	0.34	U	3.43	2.58		mg/Kg	☼	75	66 - 110	6	30
4-Methylphenol	0.34	U	3.43	2.56		mg/Kg	☼	75	61 - 105	5	30
4-Nitroaniline	0.34	U	3.43	2.60		mg/Kg	☼	76	49 - 118	2	30
4-Nitrophenol	0.69	U	6.86	5.06		mg/Kg	☼	74	43 - 141	3	30
Acenaphthene	0.34	U	3.43	2.56		mg/Kg	☼	75	62 - 108	3	30
Acenaphthylene	0.34	U	3.43	2.60		mg/Kg	☼	76	67 - 107	8	30
Acetophenone	0.34	U	3.43	2.32		mg/Kg	☼	68	60 - 109	9	30
Anthracene	0.34	U	3.43	2.68		mg/Kg	☼	78	69 - 111	6	30
Atrazine	0.14	U *	6.86	2.54	*	mg/Kg	☼	37	62 - 137	5	30
Benzaldehyde	0.34	U *	6.86	4.62		mg/Kg	☼	67	52 - 113	9	30
Benzo[a]anthracene	0.034	U	3.43	2.77		mg/Kg	☼	81	68 - 110	5	30
Benzo[a]pyrene	0.034	U	3.43	2.62		mg/Kg	☼	76	72 - 115	4	30
Benzo[b]fluoranthene	0.034	U	3.43	2.74		mg/Kg	☼	80	69 - 119	6	30
Benzo[g,h,i]perylene	0.34	U	3.43	2.52		mg/Kg	☼	73	54 - 128	6	30
Benzo[k]fluoranthene	0.034	U	3.43	2.88		mg/Kg	☼	84	70 - 115	3	30
Bis(2-chloroethoxy)methane	0.34	U	3.43	2.47		mg/Kg	☼	72	65 - 106	7	30
Bis(2-chloroethyl)ether	0.034	U	3.43	2.31		mg/Kg	☼	67	64 - 105	10	30
Bis(2-ethylhexyl) phthalate	0.34	U	3.43	2.95		mg/Kg	☼	86	63 - 125	3	30
Butyl benzyl phthalate	0.34	U	3.43	3.02		mg/Kg	☼	88	65 - 125	6	30
Caprolactam	0.34	U *	6.86	6.41		mg/Kg	☼	93	53 - 148	3	30
Carbazole	0.34	U	3.43	2.70		mg/Kg	☼	79	66 - 115	4	30
Chrysene	0.34	U	3.43	2.90		mg/Kg	☼	85	70 - 111	6	30
Dibenz(a,h)anthracene	0.034	U	3.43	2.53		mg/Kg	☼	74	60 - 130	6	30
Dibenzofuran	0.34	U	3.43	2.63		mg/Kg	☼	77	67 - 107	5	30
Diethyl phthalate	0.34	U	3.43	2.63		mg/Kg	☼	77	66 - 117	5	30
Dimethyl phthalate	0.34	U	3.43	2.66		mg/Kg	☼	78	68 - 112	4	30
Di-n-butyl phthalate	0.34	U	3.43	2.69		mg/Kg	☼	78	67 - 119	6	30
Di-n-octyl phthalate	0.34	U	3.43	2.83		mg/Kg	☼	83	57 - 138	6	30
Fluoranthene	0.34	U	3.43	2.60		mg/Kg	☼	76	64 - 114	4	30
Fluorene	0.34	U	3.43	2.67		mg/Kg	☼	78	66 - 110	4	30
Hexachlorobenzene	0.034	U	3.43	2.77		mg/Kg	☼	81	57 - 128	7	30
Hexachlorobutadiene	0.069	U	3.43	2.28		mg/Kg	☼	66	60 - 108	7	30
Hexachlorocyclopentadiene	0.34	U	3.43	2.52		mg/Kg	☼	73	50 - 129	6	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186306-E-4-B MSD
Matrix: Solid
Analysis Batch: 623961

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623796

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane	0.034	U	3.43	2.19		mg/Kg	☼	64	63 - 99	5	30
Indeno[1,2,3-cd]pyrene	0.034	U	3.43	2.61		mg/Kg	☼	76	53 - 137	6	30
Isophorone	0.14	U	3.43	2.54		mg/Kg	☼	74	68 - 111	6	30
Naphthalene	0.34	U	3.43	2.42		mg/Kg	☼	71	65 - 102	8	30
Nitrobenzene	0.034	U	3.43	2.35		mg/Kg	☼	68	66 - 108	9	30
N-Nitrosodi-n-propylamine	0.034	U	3.43	2.54		mg/Kg	☼	74	63 - 117	6	30
N-Nitrosodiphenylamine	0.34	U	3.43	2.74		mg/Kg	☼	80	65 - 114	6	30
Pentachlorophenol	0.27	U	6.86	4.44		mg/Kg	☼	65	56 - 116	2	30
Phenanthrene	0.34	U	3.43	2.72		mg/Kg	☼	79	68 - 111	6	30
Phenol	0.34	U	3.43	2.54		mg/Kg	☼	74	58 - 103	5	30
Pyrene	0.34	U	3.43	3.08		mg/Kg	☼	90	64 - 121	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		10 - 137
2-Fluorobiphenyl	76		29 - 107
2-Fluorophenol (Surr)	69		20 - 115
Nitrobenzene-d5 (Surr)	70		25 - 113
Phenol-d5 (Surr)	73		28 - 109
Terphenyl-d14 (Surr)	85		27 - 123

Lab Sample ID: MB 460-624336/1-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	0.33	U	0.33	0.0044	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
1,2,4,5-Tetrachlorobenzene	0.33	U	0.33	0.0043	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,2'-oxybis[1-chloropropane]	0.33	U	0.33	0.0060	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,3,4,6-Tetrachlorophenol	0.33	U	0.33	0.022	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,4,5-Trichlorophenol	0.33	U	0.33	0.011	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,4,6-Trichlorophenol	0.13	U	0.13	0.017	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,4-Dichlorophenol	0.13	U	0.13	0.0070	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,4-Dimethylphenol	0.33	U	0.33	0.015	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,4-Dinitrophenol	0.27	U	0.27	0.16	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,4-Dinitrotoluene	0.067	U	0.067	0.017	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2,6-Dinitrotoluene	0.067	U	0.067	0.011	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2-Chloronaphthalene	0.33	U	0.33	0.015	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2-Chlorophenol	0.33	U	0.33	0.0046	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2-Methylnaphthalene	0.33	U	0.33	0.0041	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2-Methylphenol	0.33	U	0.33	0.0053	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2-Nitroaniline	0.33	U	0.33	0.012	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
2-Nitrophenol	0.33	U	0.33	0.011	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
3,3'-Dichlorobenzidine	0.13	U	0.13	0.050	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
3-Nitroaniline	0.33	U	0.33	0.018	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4,6-Dinitro-2-methylphenol	0.27	U	0.27	0.054	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4-Bromophenyl phenyl ether	0.33	U	0.33	0.0043	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4-Chloro-3-methylphenol	0.33	U	0.33	0.0055	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4-Chloroaniline	0.33	U	0.33	0.023	mg/Kg		07/13/19 11:25	07/14/19 02:19	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-624336/1-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624336

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4-Chlorophenyl phenyl ether	0.33	U	0.33	0.0052	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4-Methylphenol	0.33	U	0.33	0.0056	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4-Nitroaniline	0.33	U	0.33	0.012	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
4-Nitrophenol	0.67	U	0.67	0.054	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Acenaphthene	0.33	U	0.33	0.024	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Acenaphthylene	0.33	U	0.33	0.0034	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Acetophenone	0.33	U	0.33	0.0053	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Anthracene	0.33	U	0.33	0.0037	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Atrazine	0.13	U	0.13	0.0083	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Benzaldehyde	0.33	U	0.33	0.014	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Benzo[a]anthracene	0.033	U	0.033	0.012	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Benzo[a]pyrene	0.033	U	0.033	0.0088	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Benzo[b]fluoranthene	0.033	U	0.033	0.0086	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Benzo[g,h,i]perylene	0.33	U	0.33	0.0097	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Benzo[k]fluoranthene	0.033	U	0.033	0.0065	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Bis(2-chloroethoxy)methane	0.33	U	0.33	0.011	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Bis(2-chloroethyl)ether	0.033	U	0.033	0.0040	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Bis(2-ethylhexyl) phthalate	0.33	U	0.33	0.017	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Butyl benzyl phthalate	0.33	U	0.33	0.016	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Caprolactam	0.33	U	0.33	0.020	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Carbazole	0.33	U	0.33	0.0039	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Chrysene	0.33	U	0.33	0.0056	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Dibenz(a,h)anthracene	0.033	U	0.033	0.014	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Dibenzofuran	0.33	U	0.33	0.0046	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Diethyl phthalate	0.33	U	0.33	0.0048	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Dimethyl phthalate	0.33	U	0.33	0.0040	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Di-n-butyl phthalate	0.33	U	0.33	0.058	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Di-n-octyl phthalate	0.33	U	0.33	0.018	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Fluoranthene	0.33	U	0.33	0.0043	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Fluorene	0.33	U	0.33	0.0045	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Hexachlorobenzene	0.033	U	0.033	0.0048	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Hexachlorobutadiene	0.067	U	0.067	0.0070	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Hexachlorocyclopentadiene	0.33	U	0.33	0.029	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Hexachloroethane	0.033	U	0.033	0.0051	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Indeno[1,2,3-cd]pyrene	0.033	U	0.033	0.013	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Isophorone	0.13	U	0.13	0.0087	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Naphthalene	0.33	U	0.33	0.0057	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Nitrobenzene	0.033	U	0.033	0.0079	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
N-Nitrosodi-n-propylamine	0.033	U	0.033	0.0053	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
N-Nitrosodiphenylamine	0.33	U	0.33	0.0063	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Pentachlorophenol	0.27	U	0.27	0.068	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Phenanthrene	0.33	U	0.33	0.0058	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Phenol	0.33	U	0.33	0.0049	mg/Kg		07/13/19 11:25	07/14/19 02:19	1
Pyrene	0.33	U	0.33	0.0082	mg/Kg		07/13/19 11:25	07/14/19 02:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	84		10 - 137	07/13/19 11:25	07/14/19 02:19	1
2-Fluorobiphenyl	72		29 - 107	07/13/19 11:25	07/14/19 02:19	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-624336/1-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624336

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorophenol (Surr)	63		20 - 115	07/13/19 11:25	07/14/19 02:19	1
Nitrobenzene-d5 (Surr)	91		25 - 113	07/13/19 11:25	07/14/19 02:19	1
Phenol-d5 (Surr)	81		28 - 109	07/13/19 11:25	07/14/19 02:19	1
Terphenyl-d14 (Surr)	73		27 - 123	07/13/19 11:25	07/14/19 02:19	1

Lab Sample ID: LCS 460-624336/2-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	3.33	2.48		mg/Kg		74	64 - 108
1,2,4,5-Tetrachlorobenzene	3.33	2.41		mg/Kg		72	57 - 112
2,2'-oxybis[1-chloropropane]	3.33	2.16		mg/Kg		65	39 - 122
2,3,4,6-Tetrachlorophenol	3.33	2.50		mg/Kg		75	60 - 114
2,4,5-Trichlorophenol	3.33	2.39		mg/Kg		72	60 - 106
2,4,6-Trichlorophenol	3.33	2.57		mg/Kg		77	62 - 110
2,4-Dichlorophenol	3.33	2.61		mg/Kg		78	61 - 103
2,4-Dimethylphenol	3.33	2.56		mg/Kg		77	63 - 101
2,4-Dinitrophenol	6.67	4.69		mg/Kg		70	56 - 122
2,4-Dinitrotoluene	3.33	2.84		mg/Kg		85	66 - 122
2,6-Dinitrotoluene	3.33	2.75		mg/Kg		82	70 - 114
2-Chloronaphthalene	3.33	2.46		mg/Kg		74	63 - 107
2-Chlorophenol	3.33	2.59		mg/Kg		78	62 - 97
2-Methylnaphthalene	3.33	2.49		mg/Kg		75	65 - 104
2-Methylphenol	3.33	2.78		mg/Kg		83	61 - 103
2-Nitroaniline	3.33	3.26		mg/Kg		98	57 - 114
2-Nitrophenol	3.33	2.54		mg/Kg		76	65 - 104
3,3'-Dichlorobenzidine	3.33	1.41		mg/Kg		42	18 - 88
3-Nitroaniline	3.33	2.21		mg/Kg		66	30 - 94
4,6-Dinitro-2-methylphenol	6.67	5.18		mg/Kg		78	67 - 120
4-Bromophenyl phenyl ether	3.33	2.41		mg/Kg		72	59 - 122
4-Chloro-3-methylphenol	3.33	3.04		mg/Kg		91	62 - 111
4-Chloroaniline	3.33	2.08		mg/Kg		63	18 - 94
4-Chlorophenyl phenyl ether	3.33	2.45		mg/Kg		74	66 - 110
4-Methylphenol	3.33	2.55		mg/Kg		77	61 - 105
4-Nitroaniline	3.33	2.38		mg/Kg		71	49 - 118
4-Nitrophenol	6.67	6.28		mg/Kg		94	43 - 141
Acenaphthene	3.33	2.15		mg/Kg		64	62 - 108
Acenaphthylene	3.33	2.46		mg/Kg		74	67 - 107
Acetophenone	3.33	2.74		mg/Kg		82	60 - 109
Anthracene	3.33	2.48		mg/Kg		75	69 - 111
Benzo[a]anthracene	3.33	2.38		mg/Kg		71	68 - 110
Benzo[a]pyrene	3.33	2.45		mg/Kg		74	72 - 115
Benzo[b]fluoranthene	3.33	2.83		mg/Kg		85	69 - 119
Benzo[g,h,i]perylene	3.33	2.18		mg/Kg		65	54 - 128
Benzo[k]fluoranthene	3.33	2.60		mg/Kg		78	70 - 115
Bis(2-chloroethoxy)methane	3.33	2.75		mg/Kg		83	65 - 106
Bis(2-chloroethyl)ether	3.33	2.84		mg/Kg		85	64 - 105

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-624336/2-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	3.33	2.38		mg/Kg		71	63 - 125
Butyl benzyl phthalate	3.33	2.49		mg/Kg		75	65 - 125
Carbazole	3.33	2.54		mg/Kg		76	66 - 115
Chrysene	3.33	2.50		mg/Kg		75	70 - 111
Dibenz(a,h)anthracene	3.33	2.39		mg/Kg		72	60 - 130
Dibenzofuran	3.33	2.45		mg/Kg		73	67 - 107
Diethyl phthalate	3.33	2.55		mg/Kg		77	66 - 117
Dimethyl phthalate	3.33	2.54		mg/Kg		76	68 - 112
Di-n-butyl phthalate	3.33	2.48		mg/Kg		75	67 - 119
Di-n-octyl phthalate	3.33	2.73		mg/Kg		82	57 - 138
Fluoranthene	3.33	2.61		mg/Kg		78	64 - 114
Fluorene	3.33	2.53		mg/Kg		76	66 - 110
Hexachlorobenzene	3.33	2.56		mg/Kg		77	57 - 128
Hexachlorobutadiene	3.33	2.40		mg/Kg		72	60 - 108
Hexachlorocyclopentadiene	3.33	1.35	*	mg/Kg		40	50 - 129
Hexachloroethane	3.33	2.41		mg/Kg		72	63 - 99
Indeno[1,2,3-cd]pyrene	3.33	2.55		mg/Kg		77	53 - 137
Isophorone	3.33	2.83		mg/Kg		85	68 - 111
Naphthalene	3.33	2.36		mg/Kg		71	65 - 102
Nitrobenzene	3.33	2.60		mg/Kg		78	66 - 108
N-Nitrosodi-n-propylamine	3.33	3.27		mg/Kg		98	63 - 117
N-Nitrosodiphenylamine	3.33	2.41		mg/Kg		72	65 - 114
Pentachlorophenol	6.67	4.46		mg/Kg		67	56 - 116
Phenanthrene	3.33	2.42		mg/Kg		73	68 - 111
Phenol	3.33	3.07		mg/Kg		92	58 - 103
Pyrene	3.33	2.37		mg/Kg		71	64 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	83		10 - 137
2-Fluorobiphenyl	69		29 - 107
2-Fluorophenol (Surr)	75		20 - 115
Nitrobenzene-d5 (Surr)	87		25 - 113
Phenol-d5 (Surr)	85		28 - 109
Terphenyl-d14 (Surr)	67		27 - 123

Lab Sample ID: LCS 460-624336/4-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624336

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6.66	5.73		mg/Kg		86	62 - 137
Benzaldehyde	6.66	5.42		mg/Kg		81	52 - 113
Caprolactam	6.66	6.60		mg/Kg		99	53 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	90		10 - 137
2-Fluorobiphenyl	72		29 - 107
2-Fluorophenol (Surr)	72		20 - 115

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-624336/4-A
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624336

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5 (Surr)	89		25 - 113
Phenol-d5 (Surr)	77		28 - 109
Terphenyl-d14 (Surr)	71		27 - 123

Lab Sample ID: 460-186522-E-1-A MS
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624336
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	0.38	U	3.85	1.83	*	mg/Kg	☼	48	64 - 108
1,2,4,5-Tetrachlorobenzene	0.38	U	3.85	1.77	*	mg/Kg	☼	46	57 - 112
2,2'-oxybis[1-chloropropane]	0.38	U	3.85	1.71		mg/Kg	☼	44	39 - 122
2,3,4,6-Tetrachlorophenol	0.38	U	3.85	1.69	*	mg/Kg	☼	44	60 - 114
2,4,5-Trichlorophenol	0.38	U	3.85	1.87	*	mg/Kg	☼	48	60 - 106
2,4,6-Trichlorophenol	0.15	U	3.85	1.87	*	mg/Kg	☼	49	62 - 110
2,4-Dichlorophenol	0.15	U	3.85	2.04	*	mg/Kg	☼	53	61 - 103
2,4-Dimethylphenol	0.38	U	3.85	1.97	*	mg/Kg	☼	51	63 - 101
2,4-Dinitrophenol	0.31	U	7.71	1.01	*	mg/Kg	☼	13	56 - 122
2,4-Dinitrotoluene	0.078	U	3.85	2.15	*	mg/Kg	☼	56	66 - 122
2,6-Dinitrotoluene	0.078	U	3.85	2.10	*	mg/Kg	☼	55	70 - 114
2-Chloronaphthalene	0.38	U	3.85	1.82	*	mg/Kg	☼	47	63 - 107
2-Chlorophenol	0.38	U	3.85	2.19	*	mg/Kg	☼	57	62 - 97
2-Methylnaphthalene	0.043	J	3.85	1.88	*	mg/Kg	☼	48	65 - 104
2-Methylphenol	0.38	U	3.85	2.44		mg/Kg	☼	63	61 - 103
2-Nitroaniline	0.38	U	3.85	2.50		mg/Kg	☼	65	57 - 114
2-Nitrophenol	0.38	U	3.85	1.88	*	mg/Kg	☼	49	65 - 104
3,3'-Dichlorobenzidine	0.15	U	3.85	1.65		mg/Kg	☼	43	18 - 88
3-Nitroaniline	0.38	U	3.85	1.90		mg/Kg	☼	49	30 - 94
4,6-Dinitro-2-methylphenol	0.31	U	7.71	1.84	*	mg/Kg	☼	24	67 - 120
4-Bromophenyl phenyl ether	0.38	U	3.85	1.89	*	mg/Kg	☼	49	59 - 122
4-Chloro-3-methylphenol	0.38	U	3.85	2.26	*	mg/Kg	☼	59	62 - 111
4-Chloroaniline	0.38	U	3.85	1.99		mg/Kg	☼	52	18 - 94
4-Chlorophenyl phenyl ether	0.38	U	3.85	1.84	*	mg/Kg	☼	48	66 - 110
4-Methylphenol	0.38	U	3.85	2.14	*	mg/Kg	☼	56	61 - 105
4-Nitroaniline	0.38	U	3.85	1.93		mg/Kg	☼	50	49 - 118
4-Nitrophenol	0.78	U	7.71	4.57		mg/Kg	☼	59	43 - 141
Acenaphthene	0.38	U	3.85	1.64	*	mg/Kg	☼	42	62 - 108
Acenaphthylene	0.0099	J	3.85	1.84	*	mg/Kg	☼	47	67 - 107
Acetophenone	0.38	U	3.85	2.34		mg/Kg	☼	61	60 - 109
Anthracene	0.028	J	3.85	1.81	*	mg/Kg	☼	46	69 - 111
Atrazine	0.15	U	7.71	4.06	*	mg/Kg	☼	53	62 - 137
Benzaldehyde	0.38	U	7.71	4.64		mg/Kg	☼	60	52 - 113
Benzo[a]anthracene	0.095		3.85	1.83	*	mg/Kg	☼	45	68 - 110
Benzo[a]pyrene	0.087		3.85	1.84	*	mg/Kg	☼	45	72 - 115
Benzo[b]fluoranthene	0.12		3.85	2.03	*	mg/Kg	☼	50	69 - 119
Benzo[g,h,i]perylene	0.055	J	3.85	1.54	*	mg/Kg	☼	39	54 - 128
Benzo[k]fluoranthene	0.042		3.85	2.06	*	mg/Kg	☼	52	70 - 115
Bis(2-chloroethoxy)methane	0.38	U	3.85	2.15	*	mg/Kg	☼	56	65 - 106

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186522-E-1-A MS
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624336

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Bis(2-chloroethyl)ether	0.038	U	3.85	2.36	*	mg/Kg	☼	61	64 - 105	
Bis(2-ethylhexyl) phthalate	0.078	J	3.85	1.87	*	mg/Kg	☼	46	63 - 125	
Butyl benzyl phthalate	0.025	J	3.85	1.95	*	mg/Kg	☼	50	65 - 125	
Caprolactam	0.38	U	7.71	5.16		mg/Kg	☼	67	53 - 148	
Carbazole	0.019	J	3.85	1.84	*	mg/Kg	☼	47	66 - 115	
Chrysene	0.10	J	3.85	1.89	*	mg/Kg	☼	46	70 - 111	
Dibenz(a,h)anthracene	0.038	U	3.85	1.68	*	mg/Kg	☼	44	60 - 130	
Dibenzofuran	0.022	J	3.85	1.89	*	mg/Kg	☼	48	67 - 107	
Diethyl phthalate	0.38	U	3.85	1.94	*	mg/Kg	☼	50	66 - 117	
Dimethyl phthalate	0.38	U	3.85	1.98	*	mg/Kg	☼	51	68 - 112	
Di-n-butyl phthalate	0.38	U	3.85	1.86	*	mg/Kg	☼	48	67 - 119	
Di-n-octyl phthalate	0.38	U	3.85	2.05	*	mg/Kg	☼	53	57 - 138	
Fluoranthene	0.23	J	3.85	2.04	*	mg/Kg	☼	47	64 - 114	
Fluorene	0.015	J	3.85	1.90	*	mg/Kg	☼	49	66 - 110	
Hexachlorobenzene	0.038	U	3.85	1.90	*	mg/Kg	☼	49	57 - 128	
Hexachlorobutadiene	0.078	U	3.85	1.64	*	mg/Kg	☼	43	60 - 108	
Hexachlorocyclopentadiene	0.38	U*	3.85	0.538	*	mg/Kg	☼	14	50 - 129	
Hexachloroethane	0.038	U	3.85	1.70	*	mg/Kg	☼	44	63 - 99	
Indeno[1,2,3-cd]pyrene	0.060		3.85	1.80	*	mg/Kg	☼	45	53 - 137	
Isophorone	0.15	U	3.85	2.26	*	mg/Kg	☼	59	68 - 111	
Naphthalene	0.064	J	3.85	1.79	*	mg/Kg	☼	45	65 - 102	
Nitrobenzene	0.038	U	3.85	2.15	*	mg/Kg	☼	56	66 - 108	
N-Nitrosodi-n-propylamine	0.038	U	3.85	2.81		mg/Kg	☼	73	63 - 117	
N-Nitrosodiphenylamine	0.38	U	3.85	1.86	*	mg/Kg	☼	48	65 - 114	
Pentachlorophenol	0.31	U	7.71	2.59	*	mg/Kg	☼	34	56 - 116	
Phenanthrene	0.16	J	3.85	1.93	*	mg/Kg	☼	46	68 - 111	
Phenol	0.38	U	3.85	2.59		mg/Kg	☼	67	58 - 103	
Pyrene	0.18	J	3.85	1.95	*	mg/Kg	☼	46	64 - 121	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	51		10 - 137
2-Fluorobiphenyl	44		29 - 107
2-Fluorophenol (Surr)	48		20 - 115
Nitrobenzene-d5 (Surr)	57		25 - 113
Phenol-d5 (Surr)	62		28 - 109
Terphenyl-d14 (Surr)	43		27 - 123

Lab Sample ID: 460-186522-E-1-B MSD
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 624336

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
1,1'-Biphenyl	0.38	U	3.86	1.94	*	mg/Kg	☼	50	64 - 108	6	30	
1,2,4,5-Tetrachlorobenzene	0.38	U	3.86	1.81	*	mg/Kg	☼	47	57 - 112	2	30	
2,2'-oxybis[1-chloropropane]	0.38	U	3.86	1.67		mg/Kg	☼	43	39 - 122	3	30	
2,3,4,6-Tetrachlorophenol	0.38	U	3.86	1.82	*	mg/Kg	☼	47	60 - 114	7	30	
2,4,5-Trichlorophenol	0.38	U	3.86	1.87	*	mg/Kg	☼	48	60 - 106	0	30	
2,4,6-Trichlorophenol	0.15	U	3.86	1.90	*	mg/Kg	☼	49	62 - 110	2	30	

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186522-E-1-B MSD

Matrix: Solid

Analysis Batch: 624425

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 624336

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
2,4-Dichlorophenol	0.15	U	3.86	2.13	*	mg/Kg	☼	55	61 - 103	4	30
2,4-Dimethylphenol	0.38	U	3.86	2.04	*	mg/Kg	☼	53	63 - 101	3	30
2,4-Dinitrophenol	0.31	U	7.72	0.944	*	mg/Kg	☼	12	56 - 122	7	30
2,4-Dinitrotoluene	0.078	U	3.86	2.20	*	mg/Kg	☼	57	66 - 122	2	30
2,6-Dinitrotoluene	0.078	U	3.86	2.23	*	mg/Kg	☼	58	70 - 114	6	30
2-Chloronaphthalene	0.38	U	3.86	1.91	*	mg/Kg	☼	50	63 - 107	5	30
2-Chlorophenol	0.38	U	3.86	2.10	*	mg/Kg	☼	54	62 - 97	4	30
2-Methylnaphthalene	0.043	J	3.86	1.95	*	mg/Kg	☼	50	65 - 104	4	30
2-Methylphenol	0.38	U	3.86	2.28	*	mg/Kg	☼	59	61 - 103	7	30
2-Nitroaniline	0.38	U	3.86	2.63	*	mg/Kg	☼	68	57 - 114	5	30
2-Nitrophenol	0.38	U	3.86	1.91	*	mg/Kg	☼	49	65 - 104	2	30
3,3'-Dichlorobenzidine	0.15	U	3.86	1.91	*	mg/Kg	☼	50	18 - 88	14	30
3-Nitroaniline	0.38	U	3.86	2.01	*	mg/Kg	☼	52	30 - 94	5	30
4,6-Dinitro-2-methylphenol	0.31	U	7.72	1.77	*	mg/Kg	☼	23	67 - 120	4	30
4-Bromophenyl phenyl ether	0.38	U	3.86	1.94	*	mg/Kg	☼	50	59 - 122	3	30
4-Chloro-3-methylphenol	0.38	U	3.86	2.41	*	mg/Kg	☼	62	62 - 111	6	30
4-Chloroaniline	0.38	U	3.86	2.07	*	mg/Kg	☼	54	18 - 94	4	30
4-Chlorophenyl phenyl ether	0.38	U	3.86	1.91	*	mg/Kg	☼	49	66 - 110	3	30
4-Methylphenol	0.38	U	3.86	2.06	*	mg/Kg	☼	53	61 - 105	4	30
4-Nitroaniline	0.38	U	3.86	1.92	*	mg/Kg	☼	50	49 - 118	1	30
4-Nitrophenol	0.78	U	7.72	4.75	*	mg/Kg	☼	62	43 - 141	4	30
Acenaphthene	0.38	U	3.86	1.71	*	mg/Kg	☼	44	62 - 108	4	30
Acenaphthylene	0.0099	J	3.86	1.93	*	mg/Kg	☼	50	67 - 107	5	30
Acetophenone	0.38	U	3.86	2.23	*	mg/Kg	☼	58	60 - 109	5	30
Anthracene	0.028	J	3.86	1.94	*	mg/Kg	☼	50	69 - 111	7	30
Atrazine	0.15	U	7.72	4.08	*	mg/Kg	☼	53	62 - 137	1	30
Benzaldehyde	0.38	U	7.72	4.53	*	mg/Kg	☼	59	52 - 113	2	30
Benzo[a]anthracene	0.095		3.86	1.98	*	mg/Kg	☼	49	68 - 110	8	30
Benzo[a]pyrene	0.087		3.86	2.02	*	mg/Kg	☼	50	72 - 115	9	30
Benzo[b]fluoranthene	0.12		3.86	2.19	*	mg/Kg	☼	54	69 - 119	7	30
Benzo[g,h,i]perylene	0.055	J	3.86	1.79	*	mg/Kg	☼	45	54 - 128	15	30
Benzo[k]fluoranthene	0.042		3.86	2.20	*	mg/Kg	☼	56	70 - 115	6	30
Bis(2-chloroethoxy)methane	0.38	U	3.86	2.18	*	mg/Kg	☼	56	65 - 106	1	30
Bis(2-chloroethyl)ether	0.038	U	3.86	2.33	*	mg/Kg	☼	60	64 - 105	1	30
Bis(2-ethylhexyl) phthalate	0.078	J	3.86	1.93	*	mg/Kg	☼	48	63 - 125	3	30
Butyl benzyl phthalate	0.025	J	3.86	1.98	*	mg/Kg	☼	51	65 - 125	2	30
Caprolactam	0.38	U	7.72	5.10	*	mg/Kg	☼	66	53 - 148	1	30
Carbazole	0.019	J	3.86	1.99	*	mg/Kg	☼	51	66 - 115	8	30
Chrysene	0.10	J	3.86	2.06	*	mg/Kg	☼	51	70 - 111	8	30
Dibenz(a,h)anthracene	0.038	U	3.86	1.90	*	mg/Kg	☼	49	60 - 130	12	30
Dibenzofuran	0.022	J	3.86	1.99	*	mg/Kg	☼	51	67 - 107	5	30
Diethyl phthalate	0.38	U	3.86	1.97	*	mg/Kg	☼	51	66 - 117	2	30
Dimethyl phthalate	0.38	U	3.86	2.01	*	mg/Kg	☼	52	68 - 112	2	30
Di-n-butyl phthalate	0.38	U	3.86	1.94	*	mg/Kg	☼	50	67 - 119	4	30
Di-n-octyl phthalate	0.38	U	3.86	2.01	*	mg/Kg	☼	52	57 - 138	2	30
Fluoranthene	0.23	J	3.86	2.31	*	mg/Kg	☼	54	64 - 114	12	30
Fluorene	0.015	J	3.86	1.94	*	mg/Kg	☼	50	66 - 110	2	30
Hexachlorobenzene	0.038	U	3.86	1.97	*	mg/Kg	☼	51	57 - 128	3	30
Hexachlorobutadiene	0.078	U	3.86	1.82	*	mg/Kg	☼	47	60 - 108	10	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186522-E-1-B MSD
Matrix: Solid
Analysis Batch: 624425

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 624336

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Hexachlorocyclopentadiene	0.38	U *	3.86	0.431	*	mg/Kg	☼	11	50 - 129	22	30
Hexachloroethane	0.038	U	3.86	1.76	*	mg/Kg	☼	46	63 - 99	3	30
Indeno[1,2,3-cd]pyrene	0.060		3.86	2.01	*	mg/Kg	☼	51	53 - 137	11	30
Isophorone	0.15	U	3.86	2.28	*	mg/Kg	☼	59	68 - 111	1	30
Naphthalene	0.064	J	3.86	1.90	*	mg/Kg	☼	48	65 - 102	6	30
Nitrobenzene	0.038	U	3.86	2.07	*	mg/Kg	☼	54	66 - 108	4	30
N-Nitrosodi-n-propylamine	0.038	U	3.86	2.69	*	mg/Kg	☼	70	63 - 117	4	30
N-Nitrosodiphenylamine	0.38	U	3.86	1.99	*	mg/Kg	☼	51	65 - 114	6	30
Pentachlorophenol	0.31	U	7.72	2.95	*	mg/Kg	☼	38	56 - 116	13	30
Phenanthrene	0.16	J	3.86	2.10	*	mg/Kg	☼	50	68 - 111	9	30
Phenol	0.38	U	3.86	2.52	*	mg/Kg	☼	65	58 - 103	3	30
Pyrene	0.18	J	3.86	2.03	*	mg/Kg	☼	48	64 - 121	4	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	53		10 - 137
2-Fluorobiphenyl	47		29 - 107
2-Fluorophenol (Surr)	51		20 - 115
Nitrobenzene-d5 (Surr)	60		25 - 113
Phenol-d5 (Surr)	61		28 - 109
Terphenyl-d14 (Surr)	45		27 - 123

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-623792/1-A
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623792

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Chlordane (n.o.s.)	0.067	U	0.067	0.016	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		07/11/19 08:46	07/12/19 07:59	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		07/11/19 08:46	07/12/19 07:59	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-623792/1-A
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-Chlordane	0.0067	U	0.0067	0.0012	mg/Kg		07/11/19 08:46	07/12/19 07:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		49 - 150	07/11/19 08:46	07/12/19 07:59	1
DCB Decachlorobiphenyl	96		49 - 150	07/11/19 08:46	07/12/19 07:59	1
Tetrachloro-m-xylene	87		47 - 150	07/11/19 08:46	07/12/19 07:59	1
Tetrachloro-m-xylene	87		47 - 150	07/11/19 08:46	07/12/19 07:59	1

Lab Sample ID: LCS 460-623792/2-A
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	0.133	0.167		mg/Kg		125	67 - 130
4,4'-DDD	0.133	0.166		mg/Kg		124	67 - 130
4,4'-DDE	0.133	0.150		mg/Kg		113	70 - 127
4,4'-DDE	0.133	0.149		mg/Kg		112	70 - 127
4,4'-DDT	0.133	0.121		mg/Kg		91	70 - 122
4,4'-DDT	0.133	0.123		mg/Kg		92	70 - 122
Aldrin	0.133	0.149		mg/Kg		111	66 - 137
Aldrin	0.133	0.144		mg/Kg		108	66 - 137
alpha-BHC	0.133	0.154		mg/Kg		115	65 - 142
alpha-BHC	0.133	0.143		mg/Kg		107	65 - 142
beta-BHC	0.133	0.145		mg/Kg		109	70 - 132
beta-BHC	0.133	0.137		mg/Kg		103	70 - 132
cis-Chlordane	0.133	0.147		mg/Kg		110	70 - 132
cis-Chlordane	0.133	0.147		mg/Kg		110	70 - 132
delta-BHC	0.133	0.163		mg/Kg		122	65 - 136
delta-BHC	0.133	0.154		mg/Kg		115	65 - 136
Dieldrin	0.133	0.150		mg/Kg		112	70 - 134
Dieldrin	0.133	0.146		mg/Kg		110	70 - 134
Endosulfan I	0.133	0.146		mg/Kg		110	70 - 136
Endosulfan I	0.133	0.144		mg/Kg		108	70 - 136
Endosulfan II	0.133	0.156		mg/Kg		117	72 - 127
Endosulfan II	0.133	0.151		mg/Kg		113	72 - 127
Endosulfan sulfate	0.133	0.150		mg/Kg		113	71 - 128
Endosulfan sulfate	0.133	0.149		mg/Kg		112	71 - 128
Endrin	0.133	0.135		mg/Kg		102	74 - 129
Endrin	0.133	0.134		mg/Kg		100	74 - 129
Endrin aldehyde	0.133	0.157		mg/Kg		118	71 - 129
Endrin aldehyde	0.133	0.156		mg/Kg		117	71 - 129
Endrin ketone	0.133	0.179		mg/Kg		134	68 - 135
Endrin ketone	0.133	0.176		mg/Kg		132	68 - 135
gamma-BHC (Lindane)	0.133	0.149		mg/Kg		112	68 - 136
gamma-BHC (Lindane)	0.133	0.140		mg/Kg		105	68 - 136
Heptachlor	0.133	0.140		mg/Kg		105	68 - 132
Heptachlor	0.133	0.132		mg/Kg		99	68 - 132
Heptachlor epoxide	0.133	0.148		mg/Kg		111	72 - 131

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-623792/2-A
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor epoxide	0.133	0.144		mg/Kg		108	72 - 131
Methoxychlor	0.133	0.121		mg/Kg		91	63 - 135
Methoxychlor	0.133	0.119		mg/Kg		89	63 - 135
trans-Chlordane	0.133	0.150		mg/Kg		113	68 - 135
trans-Chlordane	0.133	0.147		mg/Kg		111	68 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	80		49 - 150
DCB Decachlorobiphenyl	87		49 - 150
Tetrachloro-m-xylene	80		47 - 150
Tetrachloro-m-xylene	78		47 - 150

Lab Sample ID: LCSD 460-623792/3-A
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623792

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
4,4'-DDD	0.133	0.165		mg/Kg		123	67 - 130	1	30
4,4'-DDD	0.133	0.156		mg/Kg		117	67 - 130	6	30
4,4'-DDE	0.133	0.149		mg/Kg		112	70 - 127	1	30
4,4'-DDE	0.133	0.142		mg/Kg		106	70 - 127	5	30
4,4'-DDT	0.133	0.121		mg/Kg		90	70 - 122	2	30
4,4'-DDT	0.133	0.116		mg/Kg		87	70 - 122	4	30
Aldrin	0.133	0.147		mg/Kg		110	66 - 137	1	30
Aldrin	0.133	0.136		mg/Kg		102	66 - 137	5	30
alpha-BHC	0.133	0.152		mg/Kg		114	65 - 142	1	30
alpha-BHC	0.133	0.136		mg/Kg		102	65 - 142	5	30
beta-BHC	0.133	0.143		mg/Kg		108	70 - 132	1	30
beta-BHC	0.133	0.130		mg/Kg		97	70 - 132	6	30
cis-Chlordane	0.133	0.145		mg/Kg		109	70 - 132	1	30
cis-Chlordane	0.133	0.140		mg/Kg		105	70 - 132	5	30
delta-BHC	0.133	0.160		mg/Kg		120	65 - 136	1	30
delta-BHC	0.133	0.146		mg/Kg		109	65 - 136	5	30
Dieldrin	0.133	0.148		mg/Kg		111	70 - 134	1	30
Dieldrin	0.133	0.139		mg/Kg		104	70 - 134	5	30
Endosulfan I	0.133	0.145		mg/Kg		109	70 - 136	1	30
Endosulfan I	0.133	0.137		mg/Kg		103	70 - 136	5	30
Endosulfan II	0.133	0.154		mg/Kg		115	72 - 127	1	30
Endosulfan II	0.133	0.142		mg/Kg		106	72 - 127	6	30
Endosulfan sulfate	0.133	0.149		mg/Kg		112	71 - 128	1	30
Endosulfan sulfate	0.133	0.143		mg/Kg		107	71 - 128	4	30
Endrin	0.133	0.133		mg/Kg		100	74 - 129	1	30
Endrin	0.133	0.127		mg/Kg		95	74 - 129	6	30
Endrin aldehyde	0.133	0.156		mg/Kg		117	71 - 129	1	30
Endrin aldehyde	0.133	0.150		mg/Kg		113	71 - 129	4	30
Endrin ketone	0.133	0.177		mg/Kg		133	68 - 135	1	30
Endrin ketone	0.133	0.168		mg/Kg		126	68 - 135	4	30
gamma-BHC (Lindane)	0.133	0.147		mg/Kg		110	68 - 136	1	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-623792/3-A
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623792

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
gamma-BHC (Lindane)	0.133	0.133		mg/Kg		100	68 - 136	5	30
Heptachlor	0.133	0.138		mg/Kg		104	68 - 132	1	30
Heptachlor	0.133	0.126		mg/Kg		94	68 - 132	5	30
Heptachlor epoxide	0.133	0.145		mg/Kg		109	72 - 131	1	30
Heptachlor epoxide	0.133	0.137		mg/Kg		103	72 - 131	5	30
Methoxychlor	0.133	0.120		mg/Kg		90	63 - 135	1	30
Methoxychlor	0.133	0.114		mg/Kg		85	63 - 135	4	30
trans-Chlordane	0.133	0.148		mg/Kg		111	68 - 135	1	30
trans-Chlordane	0.133	0.140		mg/Kg		105	68 - 135	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	80		49 - 150
DCB Decachlorobiphenyl	84		49 - 150
Tetrachloro-m-xylene	79		47 - 150
Tetrachloro-m-xylene	82		47 - 150

Lab Sample ID: 460-186281-6 MS
Matrix: Solid
Analysis Batch: 624043

Client Sample ID: SB-05_10-12_20190710
Prep Type: Total/NA
Prep Batch: 623792

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	0.0076	U	0.152	0.170		mg/Kg	☼	112	67 - 130
4,4'-DDD	0.0076	U	0.152	0.191		mg/Kg	☼	126	67 - 130
4,4'-DDE	0.0076	U	0.152	0.150		mg/Kg	☼	98	70 - 127
4,4'-DDE	0.0076	U	0.152	0.164		mg/Kg	☼	108	70 - 127
4,4'-DDT	0.0076	U	0.152	0.111		mg/Kg	☼	73	70 - 122
4,4'-DDT	0.0076	U	0.152	0.129		mg/Kg	☼	85	70 - 122
Aldrin	0.0076	U	0.152	0.143		mg/Kg	☼	94	66 - 137
Aldrin	0.0076	U	0.152	0.154		mg/Kg	☼	101	66 - 137
alpha-BHC	0.0023	U	0.152	0.144		mg/Kg	☼	95	65 - 142
alpha-BHC	0.0023	U	0.152	0.152		mg/Kg	☼	100	65 - 142
beta-BHC	0.0023	U	0.152	0.146		mg/Kg	☼	96	70 - 132
beta-BHC	0.0023	U	0.152	0.151		mg/Kg	☼	99	70 - 132
cis-Chlordane	0.0076	U	0.152	0.146		mg/Kg	☼	96	70 - 132
cis-Chlordane	0.0076	U	0.152	0.158		mg/Kg	☼	104	70 - 132
delta-BHC	0.0023	U	0.152	0.161		mg/Kg	☼	106	65 - 136
delta-BHC	0.0023	U	0.152	0.171		mg/Kg	☼	112	65 - 136
Dieldrin	0.0023	U	0.152	0.149		mg/Kg	☼	98	70 - 134
Dieldrin	0.0023	U	0.152	0.163		mg/Kg	☼	107	70 - 134
Endosulfan I	0.0076	U	0.152	0.145		mg/Kg	☼	95	70 - 136
Endosulfan I	0.0076	U	0.152	0.159		mg/Kg	☼	105	70 - 136
Endosulfan II	0.0076	U	0.152	0.152		mg/Kg	☼	100	72 - 127
Endosulfan II	0.0076	U	0.152	0.169		mg/Kg	☼	111	72 - 127
Endosulfan sulfate	0.0076	U	0.152	0.150		mg/Kg	☼	99	71 - 128
Endosulfan sulfate	0.0076	U	0.152	0.165		mg/Kg	☼	109	71 - 128
Endrin	0.0076	U	0.152	0.139		mg/Kg	☼	92	74 - 129
Endrin	0.0076	U	0.152	0.158		mg/Kg	☼	104	74 - 129
Endrin aldehyde	0.0076	U	0.152	0.146		mg/Kg	☼	96	71 - 129

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-186281-6 MS

Matrix: Solid

Analysis Batch: 624043

Client Sample ID: SB-05_10-12_20190710

Prep Type: Total/NA

Prep Batch: 623792

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
Endrin aldehyde	0.0076	U	0.152	0.162		mg/Kg	☼	106		71 - 129
Endrin ketone	0.0076	U	0.152	0.172		mg/Kg	☼	113		68 - 135
Endrin ketone	0.0076	U	0.152	0.190		mg/Kg	☼	125		68 - 135
gamma-BHC (Lindane)	0.0023	U	0.152	0.144		mg/Kg	☼	94		68 - 136
gamma-BHC (Lindane)	0.0023	U	0.152	0.150		mg/Kg	☼	98		68 - 136
Heptachlor	0.0076	U	0.152	0.137		mg/Kg	☼	90		68 - 132
Heptachlor	0.0076	U	0.152	0.144		mg/Kg	☼	94		68 - 132
Heptachlor epoxide	0.0076	U	0.152	0.144		mg/Kg	☼	94		72 - 131
Heptachlor epoxide	0.0076	U	0.152	0.158		mg/Kg	☼	104		72 - 131
Methoxychlor	0.0076	U	0.152	0.119		mg/Kg	☼	78		63 - 135
Methoxychlor	0.0076	U	0.152	0.133		mg/Kg	☼	87		63 - 135
trans-Chlordane	0.0076	U	0.152	0.150		mg/Kg	☼	98		68 - 135
trans-Chlordane	0.0076	U	0.152	0.161		mg/Kg	☼	105		68 - 135

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	73		49 - 150
DCB Decachlorobiphenyl	90		49 - 150
Tetrachloro-m-xylene	69		47 - 150
Tetrachloro-m-xylene	73		47 - 150

Lab Sample ID: 460-186281-6 MSD

Matrix: Solid

Analysis Batch: 624043

Client Sample ID: SB-05_10-12_20190710

Prep Type: Total/NA

Prep Batch: 623792

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	Limits	RPD	Limit
	Result	Qualifier		Result	Qualifier							
4,4'-DDD	0.0076	U	0.152	0.187		mg/Kg	☼	123		67 - 130	9	30
4,4'-DDD	0.0076	U	0.152	0.204	*	mg/Kg	☼	134		67 - 130	6	30
4,4'-DDE	0.0076	U	0.152	0.165		mg/Kg	☼	108		70 - 127	10	30
4,4'-DDE	0.0076	U	0.152	0.178		mg/Kg	☼	117		70 - 127	8	30
4,4'-DDT	0.0076	U	0.152	0.120		mg/Kg	☼	79		70 - 122	8	30
4,4'-DDT	0.0076	U	0.152	0.144		mg/Kg	☼	95		70 - 122	11	30
Aldrin	0.0076	U	0.152	0.156		mg/Kg	☼	103		66 - 137	9	30
Aldrin	0.0076	U	0.152	0.167		mg/Kg	☼	109		66 - 137	8	30
alpha-BHC	0.0023	U	0.152	0.159		mg/Kg	☼	104		65 - 142	10	30
alpha-BHC	0.0023	U	0.152	0.164		mg/Kg	☼	108		65 - 142	8	30
beta-BHC	0.0023	U	0.152	0.160		mg/Kg	☼	105		70 - 132	9	30
beta-BHC	0.0023	U	0.152	0.163		mg/Kg	☼	107		70 - 132	7	30
cis-Chlordane	0.0076	U	0.152	0.160		mg/Kg	☼	105		70 - 132	9	30
cis-Chlordane	0.0076	U	0.152	0.171		mg/Kg	☼	112		70 - 132	8	30
delta-BHC	0.0023	U	0.152	0.176		mg/Kg	☼	116		65 - 136	9	30
delta-BHC	0.0023	U	0.152	0.185		mg/Kg	☼	122		65 - 136	8	30
Dieldrin	0.0023	U	0.152	0.164		mg/Kg	☼	108		70 - 134	10	30
Dieldrin	0.0023	U	0.152	0.175		mg/Kg	☼	115		70 - 134	7	30
Endosulfan I	0.0076	U	0.152	0.155		mg/Kg	☼	102		70 - 136	7	30
Endosulfan I	0.0076	U	0.152	0.173		mg/Kg	☼	113		70 - 136	8	30
Endosulfan II	0.0076	U	0.152	0.168		mg/Kg	☼	111		72 - 127	10	30
Endosulfan II	0.0076	U	0.152	0.183		mg/Kg	☼	120		72 - 127	8	30
Endosulfan sulfate	0.0076	U	0.152	0.165		mg/Kg	☼	109		71 - 128	10	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-186281-6 MSD

Matrix: Solid

Analysis Batch: 624043

Client Sample ID: SB-05_10-12_20190710

Prep Type: Total/NA

Prep Batch: 623792

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Added	Result						
Endosulfan sulfate	0.0076	U	0.152	0.179		mg/Kg	☼	118	71 - 128	8	30
Endrin	0.0076	U	0.152	0.155		mg/Kg	☼	102	74 - 129	11	30
Endrin	0.0076	U	0.152	0.173		mg/Kg	☼	114	74 - 129	9	30
Endrin aldehyde	0.0076	U	0.152	0.157		mg/Kg	☼	103	71 - 129	8	30
Endrin aldehyde	0.0076	U	0.152	0.171		mg/Kg	☼	112	71 - 129	6	30
Endrin ketone	0.0076	U	0.152	0.185		mg/Kg	☼	121	68 - 135	7	30
Endrin ketone	0.0076	U	0.152	0.206 *		mg/Kg	☼	136	68 - 135	8	30
gamma-BHC (Lindane)	0.0023	U	0.152	0.159		mg/Kg	☼	104	68 - 136	10	30
gamma-BHC (Lindane)	0.0023	U	0.152	0.163		mg/Kg	☼	107	68 - 136	8	30
Heptachlor	0.0076	U	0.152	0.151		mg/Kg	☼	99	68 - 132	10	30
Heptachlor	0.0076	U	0.152	0.156		mg/Kg	☼	103	68 - 132	8	30
Heptachlor epoxide	0.0076	U	0.152	0.157		mg/Kg	☼	103	72 - 131	9	30
Heptachlor epoxide	0.0076	U	0.152	0.170		mg/Kg	☼	112	72 - 131	8	30
Methoxychlor	0.0076	U	0.152	0.134		mg/Kg	☼	88	63 - 135	11	30
Methoxychlor	0.0076	U	0.152	0.148		mg/Kg	☼	97	63 - 135	11	30
trans-Chlordane	0.0076	U	0.152	0.165		mg/Kg	☼	108	68 - 135	10	30
trans-Chlordane	0.0076	U	0.152	0.173		mg/Kg	☼	114	68 - 135	8	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	79		49 - 150
DCB Decachlorobiphenyl	101		49 - 150
Tetrachloro-m-xylene	75		47 - 150
Tetrachloro-m-xylene	77		47 - 150

Lab Sample ID: MB 460-624580/1-A

Matrix: Solid

Analysis Batch: 624948

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 624580

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.0067	U	0.0067	0.0011	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
4,4'-DDE	0.0067	U	0.0067	0.00079	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
4,4'-DDT	0.0067	U	0.0067	0.0012	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Aldrin	0.0067	U	0.0067	0.0010	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
alpha-BHC	0.0020	U	0.0020	0.00068	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
beta-BHC	0.0020	U	0.0020	0.00075	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Chlordane (n.o.s.)	0.067	U	0.067	0.016	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
cis-Chlordane	0.0067	U	0.0067	0.0011	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
delta-BHC	0.0020	U	0.0020	0.00041	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Dieldrin	0.0020	U	0.0020	0.00087	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Endosulfan I	0.0067	U	0.0067	0.0010	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Endosulfan II	0.0067	U	0.0067	0.0017	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Endosulfan sulfate	0.0067	U	0.0067	0.00084	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Endrin	0.0067	U	0.0067	0.00096	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Endrin aldehyde	0.0067	U	0.0067	0.0016	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Endrin ketone	0.0067	U	0.0067	0.0013	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
gamma-BHC (Lindane)	0.0020	U	0.0020	0.00062	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Heptachlor	0.0067	U	0.0067	0.00079	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Heptachlor epoxide	0.0067	U	0.0067	0.0010	mg/Kg		07/15/19 09:15	07/16/19 15:32	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-624580/1-A
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624580

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Methoxychlor	0.0067	U	0.0067	0.0015	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
Toxaphene	0.067	U	0.067	0.024	mg/Kg		07/15/19 09:15	07/16/19 15:32	1
trans-Chlordane	0.0067	U	0.0067	0.0012	mg/Kg		07/15/19 09:15	07/16/19 15:32	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	115		49 - 150	07/15/19 09:15	07/16/19 15:32	1
DCB Decachlorobiphenyl	105		49 - 150	07/15/19 09:15	07/16/19 15:32	1
Tetrachloro-m-xylene	112		47 - 150	07/15/19 09:15	07/16/19 15:32	1
Tetrachloro-m-xylene	102		47 - 150	07/15/19 09:15	07/16/19 15:32	1

Lab Sample ID: LCS 460-624580/2-A
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
4,4'-DDD	0.133	0.125		mg/Kg		94	67 - 130
4,4'-DDD	0.133	0.144		mg/Kg		108	67 - 130
4,4'-DDE	0.133	0.148		mg/Kg		111	70 - 127
4,4'-DDE	0.133	0.143		mg/Kg		107	70 - 127
4,4'-DDT	0.133	0.125		mg/Kg		94	70 - 122
4,4'-DDT	0.133	0.138		mg/Kg		104	70 - 122
Aldrin	0.133	0.135		mg/Kg		101	66 - 137
Aldrin	0.133	0.145		mg/Kg		109	66 - 137
alpha-BHC	0.133	0.138		mg/Kg		103	65 - 142
alpha-BHC	0.133	0.145		mg/Kg		108	65 - 142
beta-BHC	0.133	0.142		mg/Kg		106	70 - 132
beta-BHC	0.133	0.142		mg/Kg		106	70 - 132
cis-Chlordane	0.133	0.153		mg/Kg		115	70 - 132
cis-Chlordane	0.133	0.152		mg/Kg		114	70 - 132
delta-BHC	0.133	0.139		mg/Kg		104	65 - 136
delta-BHC	0.133	0.143		mg/Kg		107	65 - 136
Dieldrin	0.133	0.145		mg/Kg		108	70 - 134
Dieldrin	0.133	0.153		mg/Kg		115	70 - 134
Endosulfan I	0.133	0.152		mg/Kg		114	70 - 136
Endosulfan I	0.133	0.163		mg/Kg		122	70 - 136
Endosulfan II	0.133	0.153		mg/Kg		115	72 - 127
Endosulfan II	0.133	0.148		mg/Kg		111	72 - 127
Endosulfan sulfate	0.133	0.157		mg/Kg		117	71 - 128
Endosulfan sulfate	0.133	0.160		mg/Kg		120	71 - 128
Endrin	0.133	0.154		mg/Kg		115	74 - 129
Endrin	0.133	0.164		mg/Kg		123	74 - 129
Endrin aldehyde	0.133	0.137		mg/Kg		103	71 - 129
Endrin aldehyde	0.133	0.135		mg/Kg		102	71 - 129
Endrin ketone	0.133	0.147		mg/Kg		110	68 - 135
Endrin ketone	0.133	0.144		mg/Kg		108	68 - 135
gamma-BHC (Lindane)	0.133	0.135		mg/Kg		101	68 - 136
gamma-BHC (Lindane)	0.133	0.144		mg/Kg		108	68 - 136
Heptachlor	0.133	0.136		mg/Kg		102	68 - 132

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-624580/2-A
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	0.133	0.140		mg/Kg		105	68 - 132
Heptachlor epoxide	0.133	0.149		mg/Kg		112	72 - 131
Heptachlor epoxide	0.133	0.147		mg/Kg		111	72 - 131
Methoxychlor	0.133	0.124		mg/Kg		93	63 - 135
Methoxychlor	0.133	0.112		mg/Kg		84	63 - 135
trans-Chlordane	0.133	0.151		mg/Kg		113	68 - 135
trans-Chlordane	0.133	0.151		mg/Kg		113	68 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	99		49 - 150
DCB Decachlorobiphenyl	83		49 - 150
Tetrachloro-m-xylene	84		47 - 150
Tetrachloro-m-xylene	82		47 - 150

Lab Sample ID: LCSD 460-624580/3-A
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.133	0.123		mg/Kg		93	67 - 130	1	30
4,4'-DDD	0.133	0.142		mg/Kg		106	67 - 130	2	30
4,4'-DDE	0.133	0.143		mg/Kg		107	70 - 127	4	30
4,4'-DDE	0.133	0.141		mg/Kg		106	70 - 127	2	30
4,4'-DDT	0.133	0.123		mg/Kg		92	70 - 122	1	30
4,4'-DDT	0.133	0.137		mg/Kg		103	70 - 122	1	30
Aldrin	0.133	0.132		mg/Kg		99	66 - 137	2	30
Aldrin	0.133	0.142		mg/Kg		107	66 - 137	2	30
alpha-BHC	0.133	0.136		mg/Kg		102	65 - 142	2	30
alpha-BHC	0.133	0.141		mg/Kg		106	65 - 142	3	30
beta-BHC	0.133	0.139		mg/Kg		104	70 - 132	2	30
beta-BHC	0.133	0.138		mg/Kg		104	70 - 132	2	30
cis-Chlordane	0.133	0.150		mg/Kg		112	70 - 132	2	30
cis-Chlordane	0.133	0.149		mg/Kg		112	70 - 132	2	30
delta-BHC	0.133	0.137		mg/Kg		102	65 - 136	2	30
delta-BHC	0.133	0.148		mg/Kg		111	65 - 136	3	30
Dieldrin	0.133	0.140		mg/Kg		105	70 - 134	3	30
Dieldrin	0.133	0.151		mg/Kg		113	70 - 134	2	30
Endosulfan I	0.133	0.148		mg/Kg		111	70 - 136	3	30
Endosulfan I	0.133	0.161		mg/Kg		121	70 - 136	2	30
Endosulfan II	0.133	0.152		mg/Kg		114	72 - 127	1	30
Endosulfan II	0.133	0.146		mg/Kg		109	72 - 127	2	30
Endosulfan sulfate	0.133	0.154		mg/Kg		115	71 - 128	2	30
Endosulfan sulfate	0.133	0.161		mg/Kg		121	71 - 128	1	30
Endrin	0.133	0.151		mg/Kg		114	74 - 129	2	30
Endrin	0.133	0.162		mg/Kg		121	74 - 129	1	30
Endrin aldehyde	0.133	0.137		mg/Kg		103	71 - 129	0	30
Endrin aldehyde	0.133	0.136		mg/Kg		102	71 - 129	0	30
Endrin ketone	0.133	0.143		mg/Kg		107	68 - 135	3	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-624580/3-A
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Endrin ketone	0.133	0.142		mg/Kg		107	68 - 135	1	30
gamma-BHC (Lindane)	0.133	0.133		mg/Kg		99	68 - 136	2	30
gamma-BHC (Lindane)	0.133	0.140		mg/Kg		105	68 - 136	2	30
Heptachlor	0.133	0.133		mg/Kg		100	68 - 132	2	30
Heptachlor	0.133	0.138		mg/Kg		103	68 - 132	1	30
Heptachlor epoxide	0.133	0.146		mg/Kg		110	72 - 131	2	30
Heptachlor epoxide	0.133	0.144		mg/Kg		108	72 - 131	2	30
Methoxychlor	0.133	0.123		mg/Kg		92	63 - 135	1	30
Methoxychlor	0.133	0.114		mg/Kg		86	63 - 135	2	30
trans-Chlordane	0.133	0.147		mg/Kg		110	68 - 135	3	30
trans-Chlordane	0.133	0.148		mg/Kg		111	68 - 135	2	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	96		49 - 150
DCB Decachlorobiphenyl	82		49 - 150
Tetrachloro-m-xylene	83		47 - 150
Tetrachloro-m-xylene	79		47 - 150

Lab Sample ID: 460-186525-E-5-H MS
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	0.0034	J	0.152	0.182		mg/Kg	☼	117	67 - 130
4,4'-DDD	0.0044	J	0.152	0.210	*	mg/Kg	☼	135	67 - 130
4,4'-DDE	0.22		0.152	0.388	E	mg/Kg	☼	110	70 - 127
4,4'-DDE	0.23		0.152	0.421	E	mg/Kg	☼	123	70 - 127
4,4'-DDT	0.26		0.152	0.421	E	mg/Kg	☼	105	70 - 122
4,4'-DDT	0.31		0.152	0.490	E	mg/Kg	☼	120	70 - 122
Aldrin	0.0076	U	0.152	0.164		mg/Kg	☼	108	66 - 137
Aldrin	0.0076	U	0.152	0.188		mg/Kg	☼	124	66 - 137
alpha-BHC	0.0023	U	0.152	0.169		mg/Kg	☼	111	65 - 142
alpha-BHC	0.0023	U	0.152	0.182		mg/Kg	☼	120	65 - 142
beta-BHC	0.0023	U	0.152	0.176		mg/Kg	☼	116	70 - 132
beta-BHC	0.0023	U	0.152	0.185		mg/Kg	☼	122	70 - 132
cis-Chlordane	0.0076	U	0.152	0.194		mg/Kg	☼	128	70 - 132
cis-Chlordane	0.0076	U	0.152	0.204	*	mg/Kg	☼	134	70 - 132
delta-BHC	0.0023	U	0.152	0.175		mg/Kg	☼	115	65 - 136
delta-BHC	0.0023	U	0.152	0.197		mg/Kg	☼	129	65 - 136
Dieldrin	0.039		0.152	0.209		mg/Kg	☼	112	70 - 134
Dieldrin	0.039		0.152	0.240		mg/Kg	☼	132	70 - 134
Endosulfan I	0.0076	U	0.152	0.188		mg/Kg	☼	123	70 - 136
Endosulfan I	0.0076	U	0.152	0.209	*	mg/Kg	☼	137	70 - 136
Endosulfan II	0.0076	U	0.152	0.183		mg/Kg	☼	120	72 - 127
Endosulfan II	0.0076	U	0.152	0.198	*	mg/Kg	☼	130	72 - 127
Endosulfan sulfate	0.0076	U	0.152	0.202	*	mg/Kg	☼	133	71 - 128
Endosulfan sulfate	0.0076	U	0.152	0.208	*	mg/Kg	☼	136	71 - 128
Endrin	0.011		0.152	0.206		mg/Kg	☼	128	74 - 129

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-186525-E-5-H MS
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Endrin	0.012		0.152	0.234	*	mg/Kg	☼	146	74 - 129
Endrin aldehyde	0.0076	U	0.152	0.164		mg/Kg	☼	108	71 - 129
Endrin aldehyde	0.0076	U	0.152	0.170		mg/Kg	☼	112	71 - 129
Endrin ketone	0.0076	U	0.152	0.189		mg/Kg	☼	124	68 - 135
Endrin ketone	0.0076	U	0.152	0.198		mg/Kg	☼	130	68 - 135
gamma-BHC (Lindane)	0.0023	U	0.152	0.167		mg/Kg	☼	110	68 - 136
gamma-BHC (Lindane)	0.0023	U	0.152	0.184		mg/Kg	☼	121	68 - 136
Heptachlor	0.0076	U	0.152	0.168		mg/Kg	☼	110	68 - 132
Heptachlor	0.0076	U	0.152	0.187		mg/Kg	☼	123	68 - 132
Heptachlor epoxide	0.0076	U	0.152	0.185		mg/Kg	☼	121	72 - 131
Heptachlor epoxide	0.0076	U	0.152	0.197		mg/Kg	☼	129	72 - 131
Methoxychlor	0.0076	U	0.152	0.194		mg/Kg	☼	127	63 - 135
Methoxychlor	0.0076	U	0.152	0.192		mg/Kg	☼	126	63 - 135
trans-Chlordane	0.0076	U	0.152	0.193		mg/Kg	☼	127	68 - 135
trans-Chlordane	0.0076	U	0.152	0.198		mg/Kg	☼	130	68 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	125		49 - 150
DCB Decachlorobiphenyl	114		49 - 150
Tetrachloro-m-xylene	103		47 - 150
Tetrachloro-m-xylene	93		47 - 150

Lab Sample ID: 460-186525-E-5-I MSD
Matrix: Solid
Analysis Batch: 624948

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 624580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
4,4'-DDD	0.0034	J	0.152	0.158		mg/Kg	☼	102	67 - 130	14	30
4,4'-DDD	0.0044	J	0.152	0.190		mg/Kg	☼	122	67 - 130	10	30
4,4'-DDE	0.22		0.152	0.362		mg/Kg	☼	93	70 - 127	7	30
4,4'-DDE	0.23		0.152	0.408	E	mg/Kg	☼	115	70 - 127	3	30
4,4'-DDT	0.26		0.152	0.386	E	mg/Kg	☼	82	70 - 122	9	30
4,4'-DDT	0.31		0.152	0.503	E *	mg/Kg	☼	128	70 - 122	3	30
Aldrin	0.0076	U	0.152	0.143		mg/Kg	☼	94	66 - 137	14	30
Aldrin	0.0076	U	0.152	0.168		mg/Kg	☼	111	66 - 137	11	30
alpha-BHC	0.0023	U	0.152	0.147		mg/Kg	☼	97	65 - 142	14	30
alpha-BHC	0.0023	U	0.152	0.165		mg/Kg	☼	109	65 - 142	10	30
beta-BHC	0.0023	U	0.152	0.152		mg/Kg	☼	100	70 - 132	15	30
beta-BHC	0.0023	U	0.152	0.167		mg/Kg	☼	110	70 - 132	10	30
cis-Chlordane	0.0076	U	0.152	0.170		mg/Kg	☼	112	70 - 132	13	30
cis-Chlordane	0.0076	U	0.152	0.181		mg/Kg	☼	119	70 - 132	12	30
delta-BHC	0.0023	U	0.152	0.153		mg/Kg	☼	101	65 - 136	14	30
delta-BHC	0.0023	U	0.152	0.178		mg/Kg	☼	117	65 - 136	10	30
Dieldrin	0.039		0.152	0.188		mg/Kg	☼	98	70 - 134	11	30
Dieldrin	0.039		0.152	0.219		mg/Kg	☼	118	70 - 134	9	30
Endosulfan I	0.0076	U	0.152	0.163		mg/Kg	☼	107	70 - 136	14	30
Endosulfan I	0.0076	U	0.152	0.185		mg/Kg	☼	122	70 - 136	12	30
Endosulfan II	0.0076	U	0.152	0.152		mg/Kg	☼	100	72 - 127	19	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 460-186525-E-5-I MSD

Matrix: Solid

Analysis Batch: 624948

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 624580

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan II	0.0076	U	0.152	0.175		mg/Kg	*	115	72 - 127	12	30
Endosulfan sulfate	0.0076	U	0.152	0.172		mg/Kg	*	113	71 - 128	16	30
Endosulfan sulfate	0.0076	U	0.152	0.192		mg/Kg	*	126	71 - 128	8	30
Endrin	0.011		0.152	0.179		mg/Kg	*	110	74 - 129	14	30
Endrin	0.012		0.152	0.211	*	mg/Kg	*	131	74 - 129	11	30
Endrin aldehyde	0.0076	U	0.152	0.128		mg/Kg	*	84	71 - 129	24	30
Endrin aldehyde	0.0076	U	0.152	0.153		mg/Kg	*	101	71 - 129	10	30
Endrin ketone	0.0076	U	0.152	0.156		mg/Kg	*	103	68 - 135	19	30
Endrin ketone	0.0076	U	0.152	0.180		mg/Kg	*	119	68 - 135	9	30
gamma-BHC (Lindane)	0.0023	U	0.152	0.145		mg/Kg	*	96	68 - 136	14	30
gamma-BHC (Lindane)	0.0023	U	0.152	0.167		mg/Kg	*	110	68 - 136	10	30
Heptachlor	0.0076	U	0.152	0.146		mg/Kg	*	96	68 - 132	14	30
Heptachlor	0.0076	U	0.152	0.168		mg/Kg	*	111	68 - 132	10	30
Heptachlor epoxide	0.0076	U	0.152	0.160		mg/Kg	*	105	72 - 131	14	30
Heptachlor epoxide	0.0076	U	0.152	0.175		mg/Kg	*	115	72 - 131	12	30
Methoxychlor	0.0076	U	0.152	0.169		mg/Kg	*	111	63 - 135	13	30
Methoxychlor	0.0076	U	0.152	0.183		mg/Kg	*	120	63 - 135	6	30
trans-Chlordane	0.0076	U	0.152	0.171		mg/Kg	*	113	68 - 135	12	30
trans-Chlordane	0.0076	U	0.152	0.174		mg/Kg	*	115	68 - 135	13	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	114		49 - 150
DCB Decachlorobiphenyl	104		49 - 150
Tetrachloro-m-xylene	88		47 - 150
Tetrachloro-m-xylene	87		47 - 150

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-623789/1-A

Matrix: Solid

Analysis Batch: 624037

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 623789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.0089	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1221	0.067	U	0.067	0.0089	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1232	0.067	U	0.067	0.0089	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1242	0.067	U	0.067	0.0089	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1248	0.067	U	0.067	0.0089	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1254	0.067	U	0.067	0.0092	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1260	0.067	U	0.067	0.0092	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor-1262	0.067	U	0.067	0.0092	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Aroclor 1268	0.067	U	0.067	0.0092	mg/Kg		07/11/19 08:38	07/12/19 08:27	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.0092	mg/Kg		07/11/19 08:38	07/12/19 08:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	104		53 - 150	07/11/19 08:38	07/12/19 08:27	1
DCB Decachlorobiphenyl	102		53 - 150	07/11/19 08:38	07/12/19 08:27	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-623789/2-A
Matrix: Solid
Analysis Batch: 624037

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor 1016	0.333	0.310		mg/Kg		93	76 - 146
Aroclor 1016	0.333	0.328		mg/Kg		99	76 - 146
Aroclor 1260	0.333	0.334		mg/Kg		100	74 - 148
Aroclor 1260	0.333	0.353		mg/Kg		106	74 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	94		53 - 150
DCB Decachlorobiphenyl	98		53 - 150

Lab Sample ID: LCSD 460-623789/3-A
Matrix: Solid
Analysis Batch: 624037

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623789

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	0.333	0.320		mg/Kg		96	76 - 146	3	30
Aroclor 1016	0.333	0.330		mg/Kg		99	76 - 146	0	30
Aroclor 1260	0.333	0.333		mg/Kg		100	74 - 148	0	30
Aroclor 1260	0.333	0.356		mg/Kg		107	74 - 148	1	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	94		53 - 150
DCB Decachlorobiphenyl	97		53 - 150

Lab Sample ID: 460-186281-6 MS
Matrix: Solid
Analysis Batch: 624037

Client Sample ID: SB-05_10-12_20190710
Prep Type: Total/NA
Prep Batch: 623789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aroclor 1016	0.076	U	0.381	0.285	*	mg/Kg	☼	75	76 - 146
Aroclor 1016	0.076	U	0.381	0.317		mg/Kg	☼	83	76 - 146
Aroclor 1260	0.076	U	0.381	0.315		mg/Kg	☼	83	74 - 148
Aroclor 1260	0.076	U	0.381	0.363		mg/Kg	☼	95	74 - 148

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	80		53 - 150
DCB Decachlorobiphenyl	92		53 - 150

Lab Sample ID: 460-186281-6 MSD
Matrix: Solid
Analysis Batch: 624037

Client Sample ID: SB-05_10-12_20190710
Prep Type: Total/NA
Prep Batch: 623789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	0.076	U	0.380	0.379		mg/Kg	☼	99	76 - 146	28	30
Aroclor 1016	0.076	U	0.380	0.386		mg/Kg	☼	101	76 - 146	20	30
Aroclor 1260	0.076	U	0.380	0.411		mg/Kg	☼	108	74 - 148	26	30
Aroclor 1260	0.076	U	0.380	0.436		mg/Kg	☼	115	74 - 148	18	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 460-186281-6 MSD
Matrix: Solid
Analysis Batch: 624037

Client Sample ID: SB-05_10-12_20190710
Prep Type: Total/NA
Prep Batch: 623789

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	107		53 - 150
DCB Decachlorobiphenyl	111		53 - 150

Lab Sample ID: MB 460-624576/1-A
Matrix: Solid
Analysis Batch: 624824

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.067	U	0.067	0.0089	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1221	0.067	U	0.067	0.0089	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1232	0.067	U	0.067	0.0089	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1242	0.067	U	0.067	0.0089	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1248	0.067	U	0.067	0.0089	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1254	0.067	U	0.067	0.0092	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1260	0.067	U	0.067	0.0092	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor-1262	0.067	U	0.067	0.0092	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Aroclor 1268	0.067	U	0.067	0.0092	mg/Kg		07/15/19 08:59	07/16/19 13:54	1
Polychlorinated biphenyls, Total	0.067	U	0.067	0.0092	mg/Kg		07/15/19 08:59	07/16/19 13:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	124		53 - 150	07/15/19 08:59	07/16/19 13:54	1
DCB Decachlorobiphenyl	121		53 - 150	07/15/19 08:59	07/16/19 13:54	1

Lab Sample ID: LCS 460-624576/2-A
Matrix: Solid
Analysis Batch: 624824

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.333	0.379		mg/Kg		114	76 - 146
Aroclor 1016	0.333	0.431		mg/Kg		129	76 - 146
Aroclor 1260	0.333	0.435		mg/Kg		131	74 - 148
Aroclor 1260	0.333	0.446		mg/Kg		134	74 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	120		53 - 150
DCB Decachlorobiphenyl	127		53 - 150

Lab Sample ID: LCSD 460-624576/3-A
Matrix: Solid
Analysis Batch: 624824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624576

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	0.333	0.397		mg/Kg		119	76 - 146	5	30
Aroclor 1016	0.333	0.458		mg/Kg		137	76 - 146	6	30
Aroclor 1260	0.333	0.461		mg/Kg		138	74 - 148	6	30
Aroclor 1260	0.333	0.488		mg/Kg		146	74 - 148	9	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 460-624576/3-A
Matrix: Solid
Analysis Batch: 624824

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624576

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	128		53 - 150
DCB Decachlorobiphenyl	138		53 - 150

Lab Sample ID: 460-186525-E-5-E MS
Matrix: Solid
Analysis Batch: 624824

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624576

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	Limits
				Result	Qualifier				
Aroclor 1016	0.076	U	0.381	0.400		mg/Kg	☼	105	76 - 146
Aroclor 1016	0.076	U	0.381	0.458		mg/Kg	☼	120	76 - 146
Aroclor 1260	0.076	U	0.381	0.503		mg/Kg	☼	132	74 - 148
Aroclor 1260	0.076	U	0.381	0.495		mg/Kg	☼	130	74 - 148

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	120		53 - 150
DCB Decachlorobiphenyl	122		53 - 150

Lab Sample ID: 460-186525-E-5-F MSD
Matrix: Solid
Analysis Batch: 624824

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 624576

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	Limits	RPD	Limit
				Result	Qualifier						
Aroclor 1016	0.076	U	0.380	0.358		mg/Kg	☼	94	76 - 146	11	30
Aroclor 1016	0.076	U	0.380	0.448		mg/Kg	☼	118	76 - 146	2	30
Aroclor 1260	0.076	U	0.380	0.431		mg/Kg	☼	113	74 - 148	14	30
Aroclor 1260	0.076	U	0.380	0.432		mg/Kg	☼	114	74 - 148	15	30

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
DCB Decachlorobiphenyl	105		53 - 150
DCB Decachlorobiphenyl	108		53 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-623769/1-A ^20
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623769

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	20.0	U	20.0	6.9	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Antimony	1.0	U	1.0	0.29	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Arsenic	1.0	U	1.0	0.32	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Barium	2.0	U	2.0	0.66	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Beryllium	0.40	U	0.40	0.16	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Cadmium	1.0	U	1.0	0.34	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Calcium	100	U	100	29.7	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Chromium	2.0	U	2.0	0.60	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Cobalt	2.0	U	2.0	0.60	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Copper	2.0	U	2.0	0.57	mg/Kg		07/11/19 07:28	07/11/19 10:56	20

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-623769/1-A ^20
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623769

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Iron	60.0	U	60.0	21.0	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Lead	0.60	U	0.60	0.19	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Magnesium	100	U	100	27.8	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Manganese	4.0	U	4.0	1.2	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Nickel	2.0	U	2.0	0.65	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Potassium	100	U	100	36.0	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Selenium	5.0	U	5.0	0.29	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Silver	1.0	U	1.0	0.62	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Sodium	100	U	100	31.3	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Thallium	0.40	U	0.40	0.13	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Vanadium	2.0	U	2.0	0.57	mg/Kg		07/11/19 07:28	07/11/19 10:56	20
Zinc	8.0	U	8.0	3.9	mg/Kg		07/11/19 07:28	07/11/19 10:56	20

Lab Sample ID: LCSSRM 460-623769/2-A ^100
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623769

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	
Aluminum	8610	6842		mg/Kg		79.5	51.2 - 148.7	
Antimony	68.6	34.34		mg/Kg		50.1	3.0 - 196.8	
Arsenic	69.4	69.24		mg/Kg		99.8	82.4 - 117.4	
Barium	362	332.8		mg/Kg		91.9	82.0 - 118.0	
Beryllium	223	200.9		mg/Kg		90.1	83.0 - 116.6	
Cadmium	166	152.7		mg/Kg		92.0	83.1 - 117.5	
Calcium	4650	4172		mg/Kg		89.7	81.1 - 118.7	
Chromium	249	230.3		mg/Kg		92.5	81.5 - 118.5	
Cobalt	90.6	87.60		mg/Kg		96.7	82.9 - 117.0	
Copper	280	264.4		mg/Kg		94.4	83.2 - 116.4	
Iron	14000	11420		mg/Kg		81.6	59.9 - 140.0	
Lead	225	213.5		mg/Kg		94.9	81.8 - 118.2	
Magnesium	2310	2148		mg/Kg		93.0	76.2 - 124.2	
Manganese	332	317.2		mg/Kg		95.6	81.9 - 118.1	
Nickel	114	114.1		mg/Kg		100.1	82.4 - 117.5	
Potassium	2060	1761		mg/Kg		85.5	70.4 - 130.1	
Selenium	195	185.3		mg/Kg		95.0	79.0 - 121.5	

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-623769/2-A ^100
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623769

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	61.8	57.45		mg/Kg		93.0	79.6 - 120.4
Sodium	174	500	U	mg/Kg		87.5	72.4 - 128.2
Thallium	135	128.4		mg/Kg		95.1	80.7 - 119.3
Vanadium	86.4	78.84		mg/Kg		91.2	78.0 - 121.5
Zinc	122	112.1		mg/Kg		91.9	80.8 - 118.9

Lab Sample ID: 460-186213-E-1-C MS ^20
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	2560		534	3341	4	mg/Kg	☼	146	75 - 125
Antimony	1.1	U	5.34	3.16	N	mg/Kg	☼	59	75 - 125
Arsenic	1.2		10.7	12.27		mg/Kg	☼	104	75 - 125
Barium	14.9		10.7	27.77		mg/Kg	☼	120	75 - 125
Beryllium	0.19	J	5.34	5.18		mg/Kg	☼	94	75 - 125
Cadmium	1.1	U	5.34	5.46		mg/Kg	☼	102	75 - 125
Calcium	1170		534	1765		mg/Kg	☼	111	75 - 125
Chromium	6.7		10.7	18.41		mg/Kg	☼	110	75 - 125
Cobalt	3.0		5.34	8.68		mg/Kg	☼	106	75 - 125
Copper	7.3		10.7	18.48		mg/Kg	☼	105	75 - 125
Iron	6380		534	7234	4	mg/Kg	☼	160	75 - 125
Lead	3.1		5.34	8.71		mg/Kg	☼	106	75 - 125
Magnesium	2300		534	2930	4	mg/Kg	☼	117	75 - 125
Manganese	155		53.4	222.9	N	mg/Kg	☼	127	75 - 125
Nickel	24.2		10.7	36.22		mg/Kg	☼	113	75 - 125
Potassium	546		534	1100		mg/Kg	☼	104	75 - 125
Selenium	5.3	U	10.7	10.82		mg/Kg	☼	101	75 - 125
Silver	1.1	U	5.34	5.08		mg/Kg	☼	95	75 - 125
Sodium	133		534	692.5		mg/Kg	☼	105	75 - 125
Thallium	0.43	U	4.27	4.36		mg/Kg	☼	102	75 - 125
Vanadium	9.8		10.7	21.62		mg/Kg	☼	111	75 - 125
Zinc	28.1		53.4	82.48		mg/Kg	☼	102	75 - 125

Lab Sample ID: 460-186213-E-1-B DU ^20
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 623769

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	2560		2495		mg/Kg	☼	3	20
Antimony	1.1	U	1.1	U	mg/Kg	☼	NC	20
Arsenic	1.2		1.15		mg/Kg	☼	2	20
Barium	14.9		15.15		mg/Kg	☼	1	20
Beryllium	0.19	J	0.43	U	mg/Kg	☼	NC	20
Cadmium	1.1	U	1.1	U	mg/Kg	☼	NC	20

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186213-E-1-B DU ^20
Matrix: Solid
Analysis Batch: 623857

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 623769

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Calcium	1170		1145		mg/Kg	☼	3	20
Chromium	6.7		6.37		mg/Kg	☼	5	20
Cobalt	3.0		2.92		mg/Kg	☼	4	20
Copper	7.3		7.18		mg/Kg	☼	1	20
Iron	6380		6333		mg/Kg	☼	0.8	20
Lead	3.1		3.03		mg/Kg	☼	1	20
Magnesium	2300		2382		mg/Kg	☼	3	20
Manganese	155		161.5		mg/Kg	☼	4	20
Nickel	24.2		24.54		mg/Kg	☼	2	20
Potassium	546		545.5		mg/Kg	☼	0.08	20
Selenium	5.3 U		5.3 U		mg/Kg	☼	NC	20
Silver	1.1 U		1.1 U		mg/Kg	☼	NC	20
Sodium	133		126.4		mg/Kg	☼	5	20
Thallium	0.43 U		0.43 U		mg/Kg	☼	NC	20
Vanadium	9.8		10.41		mg/Kg	☼	6	20
Zinc	28.1		37.54 *		mg/Kg	☼	29	20

Lab Sample ID: MB 460-623840/1-A ^20
Matrix: Solid
Analysis Batch: 624141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623840

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	20.0 U		20.0	6.9	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Antimony	1.0 U		1.0	0.29	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Arsenic	1.0 U		1.0	0.32	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Barium	2.0 U		2.0	0.66	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Beryllium	0.40 U		0.40	0.16	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Cadmium	1.0 U		1.0	0.34	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Calcium	100 U		100	29.7	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Chromium	2.0 U		2.0	0.60	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Cobalt	2.0 U		2.0	0.60	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Copper	2.0 U		2.0	0.57	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Iron	60.0 U		60.0	21.0	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Lead	0.60 U		0.60	0.19	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Magnesium	100 U		100	27.8	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Manganese	4.0 U		4.0	1.2	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Nickel	2.0 U		2.0	0.65	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Potassium	100 U		100	36.0	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Selenium	5.0 U		5.0	0.29	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Silver	1.0 U		1.0	0.62	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Sodium	100 U		100	31.3	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Thallium	0.40 U		0.40	0.13	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Vanadium	2.0 U		2.0	0.57	mg/Kg		07/11/19 10:31	07/11/19 19:07	20
Zinc	8.0 U		8.0	3.9	mg/Kg		07/11/19 10:31	07/11/19 19:07	20

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-623840/2-A ^50
Matrix: Solid
Analysis Batch: 624141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623840

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Aluminum	8610	6485		mg/Kg		75.3	51.2 - 148.7
Antimony	68.6	34.45		mg/Kg		50.2	3.0 - 196.8
Arsenic	69.4	64.12		mg/Kg		92.4	82.4 - 117.4
Barium	362	300.8		mg/Kg		83.1	82.0 - 118.0
Beryllium	223	208.0		mg/Kg		93.3	83.0 - 116.6
Cadmium	166	154.7		mg/Kg		93.2	83.1 - 117.5
Calcium	4650	4222		mg/Kg		90.8	81.1 - 118.7
Chromium	249	231.7		mg/Kg		93.1	81.5 - 118.5
Cobalt	90.6	87.82		mg/Kg		96.9	82.9 - 117.0
Copper	280	266.7		mg/Kg		95.2	83.2 - 116.4
Iron	14000	11170		mg/Kg		79.8	59.9 - 140.0
Lead	225	209.8		mg/Kg		93.2	81.8 - 118.2
Magnesium	2310	2014		mg/Kg		87.2	76.2 - 124.2
Manganese	332	305.8		mg/Kg		92.1	81.9 - 118.1
Nickel	114	111.3		mg/Kg		97.7	82.4 - 117.5
Potassium	2060	1684		mg/Kg		81.8	70.4 - 130.1
Selenium	195	183.8		mg/Kg		94.3	79.0 - 121.5
Silver	61.8	58.38		mg/Kg		94.5	79.6 - 120.4
Sodium	174	167.1	J	mg/Kg		96.0	72.4 - 128.2
Thallium	135	128.2		mg/Kg		95.0	80.7 - 119.3
Vanadium	86.4	78.85		mg/Kg		91.3	78.0 - 121.5
Zinc	122	114.4		mg/Kg		93.8	80.8 - 118.9

Lab Sample ID: 460-186306-D-4-C MS ^20
Matrix: Solid
Analysis Batch: 624141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	14200		508	14550	4	mg/Kg	☼	72	75 - 125
Antimony	1.0	U	5.08	2.65	N	mg/Kg	☼	52	75 - 125
Arsenic	3.2		10.2	12.42		mg/Kg	☼	91	75 - 125
Barium	49.1		10.2	57.88	4	mg/Kg	☼	86	75 - 125

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186306-D-4-C MS ^20
Matrix: Solid
Analysis Batch: 624141

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623840

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.73		5.08	5.54		mg/Kg	☼	95	75 - 125
Cadmium	1.0	U	5.08	5.13		mg/Kg	☼	101	75 - 125
Calcium	1170		508	1650		mg/Kg	☼	95	75 - 125
Chromium	5.5		10.2	15.42		mg/Kg	☼	97	75 - 125
Cobalt	5.3		5.08	10.44		mg/Kg	☼	101	75 - 125
Copper	9.2		10.2	20.02		mg/Kg	☼	107	75 - 125
Iron	24200		508	24450	4	mg/Kg	☼	46	75 - 125
Lead	2.9		5.08	8.08		mg/Kg	☼	101	75 - 125
Magnesium	3840		508	4214	4	mg/Kg	☼	74	75 - 125
Manganese	407		50.8	455.7	4	mg/Kg	☼	96	75 - 125
Nickel	2.5		10.2	12.54		mg/Kg	☼	99	75 - 125
Potassium	7270		508	7609	4	mg/Kg	☼	67	75 - 125
Selenium	5.1	U	10.2	10.24		mg/Kg	☼	101	75 - 125
Silver	1.0	U	5.08	4.83		mg/Kg	☼	95	75 - 125
Sodium	53.5	J	508	545.2		mg/Kg	☼	97	75 - 125
Thallium	0.65		4.06	4.83		mg/Kg	☼	103	75 - 125
Vanadium	27.1		10.2	36.42		mg/Kg	☼	92	75 - 125
Zinc	61.6		50.8	113.0		mg/Kg	☼	101	75 - 125

Lab Sample ID: 460-186306-D-4-B DU ^20
Matrix: Solid
Analysis Batch: 624141

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 623840

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	14200		14880		mg/Kg	☼	5	20
Antimony	1.0	U	0.99	U	mg/Kg	☼	NC	20
Arsenic	3.2		3.51		mg/Kg	☼	10	20
Barium	49.1		50.98		mg/Kg	☼	4	20
Beryllium	0.73		0.727		mg/Kg	☼	0.3	20
Cadmium	1.0	U	0.99	U	mg/Kg	☼	NC	20
Calcium	1170		1271		mg/Kg	☼	8	20
Chromium	5.5		5.75		mg/Kg	☼	4	20
Cobalt	5.3		5.52		mg/Kg	☼	4	20
Copper	9.2		8.69		mg/Kg	☼	6	20
Iron	24200		25030		mg/Kg	☼	3	20
Lead	2.9		3.15		mg/Kg	☼	7	20
Magnesium	3840		3971		mg/Kg	☼	3	20
Manganese	407		427.7		mg/Kg	☼	5	20
Nickel	2.5		2.45		mg/Kg	☼	2	20
Potassium	7270		7616		mg/Kg	☼	5	20
Selenium	5.1	U	4.9	U	mg/Kg	☼	NC	20
Silver	1.0	U	0.99	U	mg/Kg	☼	NC	20
Sodium	53.5	J	53.82	J	mg/Kg	☼	0.6	20
Thallium	0.65		0.697		mg/Kg	☼	7	20
Vanadium	27.1		28.32		mg/Kg	☼	4	20
Zinc	61.6		64.51		mg/Kg	☼	5	20

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-624533/1-A ^20
Matrix: Solid
Analysis Batch: 624641

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624533

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	20.0	U	20.0	6.9	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Antimony	1.0	U	1.0	0.29	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Arsenic	1.0	U	1.0	0.32	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Barium	2.0	U	2.0	0.66	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Beryllium	0.40	U	0.40	0.16	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Cadmium	1.0	U	1.0	0.34	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Calcium	100	U	100	29.7	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Chromium	2.0	U	2.0	0.60	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Cobalt	2.0	U	2.0	0.60	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Copper	2.0	U	2.0	0.57	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Iron	60.0	U	60.0	21.0	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Lead	0.60	U	0.60	0.19	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Magnesium	100	U	100	27.8	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Manganese	4.0	U	4.0	1.2	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Nickel	2.0	U	2.0	0.65	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Potassium	100	U	100	36.0	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Selenium	5.0	U	5.0	0.29	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Silver	1.0	U	1.0	0.62	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Sodium	100	U	100	31.3	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Thallium	0.40	U	0.40	0.13	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Vanadium	2.0	U	2.0	0.57	mg/Kg		07/15/19 05:13	07/15/19 12:07	20
Zinc	8.0	U	8.0	3.9	mg/Kg		07/15/19 05:13	07/15/19 12:07	20

Lab Sample ID: LCSSRM 460-624533/2-A ^100
Matrix: Solid
Analysis Batch: 624641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624533

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec.
							Limits
Aluminum	8610	7061		mg/Kg		82.0	51.2 - 148.7
Antimony	68.6	36.03		mg/Kg		52.5	3.0 - 196.8
Arsenic	69.4	66.54		mg/Kg		95.9	82.4 - 117.4
Barium	362	340.7		mg/Kg		94.1	82.0 - 118.0
Beryllium	223	203.4		mg/Kg		91.2	83.0 - 116.6
Cadmium	166	153.2		mg/Kg		92.3	83.1 - 117.5
Calcium	4650	4221		mg/Kg		90.8	81.1 - 118.7
Chromium	249	228.9		mg/Kg		91.9	81.5 - 118.5
Cobalt	90.6	86.14		mg/Kg		95.1	82.9 - 117.0
Copper	280	258.7		mg/Kg		92.4	83.2 - 116.4
Iron	14000	11640		mg/Kg		83.1	59.9 - 140.0
Lead	225	214.9		mg/Kg		95.5	81.8 - 118.2

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSSRM 460-624533/2-A ^100
Matrix: Solid
Analysis Batch: 624641

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624533

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Magnesium	2310	2115		mg/Kg		91.6	76.2 - 124.2
Manganese	332	311.1		mg/Kg		93.7	81.9 - 118.1
Nickel	114	108.3		mg/Kg		95.0	82.4 - 117.5
Potassium	2060	1796		mg/Kg		87.2	70.4 - 130.1
Selenium	195	186.6		mg/Kg		95.7	79.0 - 121.5
Silver	61.8	57.87		mg/Kg		93.6	79.6 - 120.4
Sodium	174	204.3	J	mg/Kg		117.4	72.4 - 128.2
Thallium	135	129.2		mg/Kg		95.7	80.7 - 119.3
Vanadium	86.4	78.37		mg/Kg		90.7	78.0 - 121.5
Zinc	122	111.6		mg/Kg		91.5	80.8 - 118.9

Lab Sample ID: 460-186525-E-5-D MS ^20
Matrix: Solid
Analysis Batch: 624641

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624533

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	9180		570	9990	4	mg/Kg	☼	141	75 - 125
Antimony	1.1	U	5.70	2.95	N	mg/Kg	☼	52	75 - 125
Arsenic	15.0		11.4	25.57		mg/Kg	☼	93	75 - 125
Barium	357		11.4	194.5	4	mg/Kg	☼	-1424	75 - 125
Beryllium	0.33	J	5.70	5.93		mg/Kg	☼	98	75 - 125
Cadmium	1.1	U	5.70	6.14		mg/Kg	☼	108	75 - 125
Calcium	3330		570	4687	4	mg/Kg	☼	237	75 - 125
Chromium	11.3		11.4	23.15		mg/Kg	☼	104	75 - 125
Cobalt	2.9		5.70	8.56		mg/Kg	☼	99	75 - 125
Copper	8.9		11.4	20.94		mg/Kg	☼	105	75 - 125
Iron	9990		570	11600	4	mg/Kg	☼	282	75 - 125
Lead	103		5.70	102.2	4	mg/Kg	☼	-6	75 - 125
Magnesium	1200		570	1916	N	mg/Kg	☼	126	75 - 125
Manganese	78.8		57.0	138.7		mg/Kg	☼	105	75 - 125
Nickel	6.7		11.4	19.32		mg/Kg	☼	111	75 - 125
Potassium	362		570	967.3		mg/Kg	☼	106	75 - 125
Selenium	0.45	J	11.4	11.23		mg/Kg	☼	94	75 - 125
Silver	1.1	U	5.70	5.10		mg/Kg	☼	89	75 - 125
Sodium	63.0	J	570	641.1		mg/Kg	☼	101	75 - 125
Thallium	0.46	U	4.56	4.58		mg/Kg	☼	100	75 - 125
Vanadium	17.5		11.4	30.57		mg/Kg	☼	114	75 - 125
Zinc	135		57.0	174.7	N	mg/Kg	☼	69	75 - 125

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186525-E-5-C DU ^20
Matrix: Solid
Analysis Batch: 624641

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 624533

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Aluminum	9180		10440		mg/Kg	☼	13	20
Antimony	1.1	U	1.1	U	mg/Kg	☼	NC	20
Arsenic	15.0		17.50		mg/Kg	☼	16	20
Barium	357		205.4	*	mg/Kg	☼	54	20
Beryllium	0.33	J	0.261	J	mg/Kg	☼	24	20
Cadmium	1.1	U	1.1	U	mg/Kg	☼	NC	20
Calcium	3330		3876		mg/Kg	☼	15	20
Chromium	11.3		12.38		mg/Kg	☼	9	20
Cobalt	2.9		3.22		mg/Kg	☼	10	20
Copper	8.9		11.22		mg/Kg	☼	23	20
Iron	9990		12220		mg/Kg	☼	20	20
Lead	103		111.7		mg/Kg	☼	8	20
Magnesium	1200		1400		mg/Kg	☼	16	20
Manganese	78.8		94.29		mg/Kg	☼	18	20
Nickel	6.7		7.88		mg/Kg	☼	16	20
Potassium	362		399.8		mg/Kg	☼	10	20
Selenium	0.45	J	0.544	J	mg/Kg	☼	19	20
Silver	1.1	U	1.1	U	mg/Kg	☼	NC	20
Sodium	63.0	J	62.56	J	mg/Kg	☼	0.7	20
Thallium	0.46	U	0.46	U	mg/Kg	☼	NC	20
Vanadium	17.5		20.30		mg/Kg	☼	15	20
Zinc	135		168.2	*	mg/Kg	☼	22	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 460-623740/1-A
Matrix: Solid
Analysis Batch: 623851

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623740

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.017	U	0.017	0.010	mg/Kg		07/11/19 05:54	07/11/19 10:17	1

Lab Sample ID: LCSSRM 460-623740/2-A ^40
Matrix: Solid
Analysis Batch: 623851

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623740

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits	
Mercury	20.3	21.99		mg/Kg		108.3	64.0 - 136.5	

Lab Sample ID: 460-185779-B-23-H MS
Matrix: Solid
Analysis Batch: 623851

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623740

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier		Result	Qualifier					
Mercury	0.80		0.0999	0.907	4	mg/Kg	☼	109	75 - 125	

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-185779-A-23-I DU
Matrix: Solid
Analysis Batch: 623851

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 623740

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.80		0.774		mg/Kg	☒	3	20

Lab Sample ID: MB 460-624023/1-A
Matrix: Solid
Analysis Batch: 624135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.010	mg/Kg		07/12/19 05:06	07/12/19 08:59	1

Lab Sample ID: LCSSRM 460-624023/2-A ^40
Matrix: Solid
Analysis Batch: 624135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624023

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Mercury	20.3	24.74		mg/Kg		121.9	64.0 - 136.5

Lab Sample ID: 460-186095-C-13-D MS
Matrix: Solid
Analysis Batch: 624135

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.012	J	0.0992	0.145	N	mg/Kg	☒	134	75 - 125

Lab Sample ID: 460-186095-C-13-C DU
Matrix: Solid
Analysis Batch: 624135

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 624023

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.012	J	0.0149	J	mg/Kg	☒	19	20

Lab Sample ID: MB 460-624797/1-A
Matrix: Solid
Analysis Batch: 624884

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624797

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	U	0.017	0.010	mg/Kg		07/16/19 04:41	07/16/19 08:57	1

Lab Sample ID: LCSSRM 460-624797/2-A ^40
Matrix: Solid
Analysis Batch: 624884

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624797

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Mercury	20.3	21.70		mg/Kg		106.9	64.0 - 136.5

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 460-186632-G-1-G MS
Matrix: Solid
Analysis Batch: 624884

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624797
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.71		0.158	0.883	4	mg/Kg	☼	111	75 - 125

Lab Sample ID: 460-186632-G-1-F DU
Matrix: Solid
Analysis Batch: 624884

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 624797
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.71		0.714		mg/Kg	☼	1	20

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 460-624562/1-A
Matrix: Solid
Analysis Batch: 624601

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624562

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.72	mg/Kg		07/15/19 08:06	07/15/19 13:17	1

Lab Sample ID: LCS1 460-624562/3-A
Matrix: Solid
Analysis Batch: 624601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624562
%Rec.

Analyte	Spike Added	LCS1 Result	LCS1 Qualifier	Unit	D	%Rec	Limits
Cr (VI)	708	788.6		mg/Kg		111	80 - 120

Lab Sample ID: LCSSRM 460-624562/2-A
Matrix: Solid
Analysis Batch: 624601

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624562
%Rec.

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Cr (VI)	14.4	13.57		mg/Kg		94.3	84.2 - 114.4

Lab Sample ID: 460-186281-8 MSI
Matrix: Solid
Analysis Batch: 624601

Client Sample ID: SB-04_3-5_20190710
Prep Type: Total/NA
Prep Batch: 624562
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	Limits
Cr (VI)	2.2	U	765	722.7		mg/Kg	☼	94	75 - 125

Lab Sample ID: 460-186281-8 MSS
Matrix: Solid
Analysis Batch: 624601

Client Sample ID: SB-04_3-5_20190710
Prep Type: Total/NA
Prep Batch: 624562
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	Limits
Cr (VI)	2.2	U	43.2	35.51		mg/Kg	☼	82	75 - 125

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: 460-186281-8 DU
Matrix: Solid
Analysis Batch: 624601

Client Sample ID: SB-04_3-5_20190710
Prep Type: Total/NA
Prep Batch: 624562

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cr (VI)	2.2	U	2.2	U	mg/Kg	☼	NC	20

Lab Sample ID: MB 460-625164/1-A
Matrix: Solid
Analysis Batch: 625198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625164

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	2.0	U	2.0	0.72	mg/Kg		07/17/19 08:37	07/17/19 13:56	1

Lab Sample ID: LCS1 460-625164/3-A
Matrix: Solid
Analysis Batch: 625198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625164

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	Limits
Cr (VI)	708	742.0		mg/Kg		105	80 - 120

Lab Sample ID: LCSSRM 460-625164/2-A
Matrix: Solid
Analysis Batch: 625198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625164

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	Limits
Cr (VI)	14.4	13.11		mg/Kg		91.1	84.2 - 114.4

Lab Sample ID: 460-186524-2 MSI
Matrix: Solid
Analysis Batch: 625198

Client Sample ID: SB-06_0-2_20190712
Prep Type: Total/NA
Prep Batch: 625164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	Limits
Cr (VI)	0.83	J	792	727.7		mg/Kg	☼	92	75 - 125

Lab Sample ID: 460-186524-2 MSS
Matrix: Solid
Analysis Batch: 625198

Client Sample ID: SB-06_0-2_20190712
Prep Type: Total/NA
Prep Batch: 625164

Analyte	Sample Result	Sample Qualifier	Spike Added	MSS Result	MSS Qualifier	Unit	D	%Rec	Limits
Cr (VI)	0.83	J	44.7	35.77		mg/Kg	☼	78	75 - 125

Lab Sample ID: 460-186524-2 DU
Matrix: Solid
Analysis Batch: 625198

Client Sample ID: SB-06_0-2_20190712
Prep Type: Total/NA
Prep Batch: 625164

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Cr (VI)	0.83	J	2.2	U	mg/Kg	☼	NC	20

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method: Moisture - Percent Moisture

Lab Sample ID: 460-186125-B-1 DU
Matrix: Solid
Analysis Batch: 624435

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	16.5		16.6		%		1	20
Percent Solids	83.5		83.4		%		0.2	20

Lab Sample ID: 460-186514-A-4 DU
Matrix: Solid
Analysis Batch: 624880

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.8		15.4		%		2	20
Percent Solids	84.2		84.6		%		0.4	20



QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

GC/MS VOA

Prep Batch: 623780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	5035	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	5035	
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	5035	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	5035	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	5035	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	5035	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	5035	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	5035	
LB3 460-623780/1-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 623809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186298-B-6-B MS	Matrix Spike	Total/NA	Solid	5035	
460-186298-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 624018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	8260C	623780
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	8260C	623780
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	8260C	623780
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	8260C	623780
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	8260C	623780
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	8260C	623780
LB3 460-623780/1-A	Method Blank	Total/NA	Solid	8260C	623780
MB 460-624018/9	Method Blank	Total/NA	Solid	8260C	
LCS 460-624018/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-624018/5	Lab Control Sample Dup	Total/NA	Solid	8260C	
460-186298-B-6-B MS	Matrix Spike	Total/NA	Solid	8260C	623809
460-186298-B-6-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8260C	623809

Prep Batch: 624305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	5035	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	5035	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	5035	

Analysis Batch: 624520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	8260C	623780
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	8260C	623780
MB 460-624520/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-624520/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-624520/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 625335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	8260C	624305
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	8260C	624305
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	8260C	624305
MB 460-625335/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-625335/3	Lab Control Sample	Total/NA	Solid	8260C	

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QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

GC/MS VOA (Continued)

Analysis Batch: 625335 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 460-625335/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 623796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	3546	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	3546	
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	3546	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	3546	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	3546	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	3546	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	3546	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	3546	
MB 460-623796/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-623796/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-623796/4-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-623796/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-186306-E-4-A MS	Matrix Spike	Total/NA	Solid	3546	
460-186306-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 623961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	8270D	623796
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	8270D	623796
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	8270D	623796
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	8270D	623796
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	8270D	623796
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	8270D	623796
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	8270D	623796
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	8270D	623796
MB 460-623796/1-A	Method Blank	Total/NA	Solid	8270D	623796
LCS 460-623796/2-A	Lab Control Sample	Total/NA	Solid	8270D	623796
LCS 460-623796/4-A	Lab Control Sample	Total/NA	Solid	8270D	623796
LCSD 460-623796/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	623796
460-186306-E-4-A MS	Matrix Spike	Total/NA	Solid	8270D	623796
460-186306-E-4-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	623796

Prep Batch: 624336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	3546	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	3546	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	3546	
MB 460-624336/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-624336/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-624336/4-A	Lab Control Sample	Total/NA	Solid	3546	
460-186522-E-1-A MS	Matrix Spike	Total/NA	Solid	3546	
460-186522-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

GC/MS Semi VOA

Analysis Batch: 624425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	8270D	624336
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	8270D	624336
MB 460-624336/1-A	Method Blank	Total/NA	Solid	8270D	624336
LCS 460-624336/2-A	Lab Control Sample	Total/NA	Solid	8270D	624336
LCS 460-624336/4-A	Lab Control Sample	Total/NA	Solid	8270D	624336
460-186522-E-1-A MS	Matrix Spike	Total/NA	Solid	8270D	624336
460-186522-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8270D	624336

Analysis Batch: 624506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	8270D	624336

GC Semi VOA

Prep Batch: 623789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	3546	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	3546	
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	3546	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	3546	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	3546	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	3546	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	3546	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	3546	
MB 460-623789/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-623789/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-623789/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-186281-6 MS	SB-05_10-12_20190710	Total/NA	Solid	3546	
460-186281-6 MSD	SB-05_10-12_20190710	Total/NA	Solid	3546	

Prep Batch: 623792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	3546	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	3546	
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	3546	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	3546	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	3546	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	3546	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	3546	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	3546	
MB 460-623792/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-623792/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-623792/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-186281-6 MS	SB-05_10-12_20190710	Total/NA	Solid	3546	
460-186281-6 MSD	SB-05_10-12_20190710	Total/NA	Solid	3546	

Analysis Batch: 624037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	8082A	623789
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	8082A	623789
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	8082A	623789

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QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

GC Semi VOA (Continued)

Analysis Batch: 624037 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	8082A	623789
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	8082A	623789
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	8082A	623789
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	8082A	623789
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	8082A	623789
MB 460-623789/1-A	Method Blank	Total/NA	Solid	8082A	623789
LCS 460-623789/2-A	Lab Control Sample	Total/NA	Solid	8082A	623789
LCSD 460-623789/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	623789
460-186281-6 MS	SB-05_10-12_20190710	Total/NA	Solid	8082A	623789
460-186281-6 MSD	SB-05_10-12_20190710	Total/NA	Solid	8082A	623789

Analysis Batch: 624043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	8081B	623792
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	8081B	623792
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	8081B	623792
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	8081B	623792
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	8081B	623792
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	8081B	623792
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	8081B	623792
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	8081B	623792
MB 460-623792/1-A	Method Blank	Total/NA	Solid	8081B	623792
LCS 460-623792/2-A	Lab Control Sample	Total/NA	Solid	8081B	623792
LCSD 460-623792/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	623792
460-186281-6 MS	SB-05_10-12_20190710	Total/NA	Solid	8081B	623792
460-186281-6 MSD	SB-05_10-12_20190710	Total/NA	Solid	8081B	623792

Prep Batch: 624576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	3546	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	3546	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	3546	
MB 460-624576/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-624576/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-624576/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-186525-E-5-E MS	Matrix Spike	Total/NA	Solid	3546	
460-186525-E-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 624580

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	3546	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	3546	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	3546	
MB 460-624580/1-A	Method Blank	Total/NA	Solid	3546	
LCS 460-624580/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 460-624580/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	
460-186525-E-5-H MS	Matrix Spike	Total/NA	Solid	3546	
460-186525-E-5-I MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

GC Semi VOA

Analysis Batch: 624824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	8082A	624576
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	8082A	624576
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	8082A	624576
MB 460-624576/1-A	Method Blank	Total/NA	Solid	8082A	624576
LCS 460-624576/2-A	Lab Control Sample	Total/NA	Solid	8082A	624576
LCSD 460-624576/3-A	Lab Control Sample Dup	Total/NA	Solid	8082A	624576
460-186525-E-5-E MS	Matrix Spike	Total/NA	Solid	8082A	624576
460-186525-E-5-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8082A	624576

Analysis Batch: 624948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	8081B	624580
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	8081B	624580
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	8081B	624580
MB 460-624580/1-A	Method Blank	Total/NA	Solid	8081B	624580
LCS 460-624580/2-A	Lab Control Sample	Total/NA	Solid	8081B	624580
LCSD 460-624580/3-A	Lab Control Sample Dup	Total/NA	Solid	8081B	624580
460-186525-E-5-H MS	Matrix Spike	Total/NA	Solid	8081B	624580
460-186525-E-5-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8081B	624580

Metals

Prep Batch: 623740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	7471B	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	7471B	
MB 460-623740/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-623740/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-185779-B-23-H MS	Matrix Spike	Total/NA	Solid	7471B	
460-185779-A-23-I DU	Duplicate	Total/NA	Solid	7471B	

Prep Batch: 623769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	3050B	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	3050B	
MB 460-623769/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-623769/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-186213-E-1-C MS ^20	Matrix Spike	Total/NA	Solid	3050B	
460-186213-E-1-B DU ^20	Duplicate	Total/NA	Solid	3050B	

Prep Batch: 623840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	3050B	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	3050B	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	3050B	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	3050B	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	3050B	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	3050B	
MB 460-623840/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-623840/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
460-186306-D-4-C MS ^20	Matrix Spike	Total/NA	Solid	3050B	

Eurofins TestAmerica, Edison

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Metals (Continued)

Prep Batch: 623840 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186306-D-4-B DU ^20	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 623851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	7471B	623740
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	7471B	623740
MB 460-623740/1-A	Method Blank	Total/NA	Solid	7471B	623740
LCSSRM 460-623740/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	623740
460-185779-B-23-H MS	Matrix Spike	Total/NA	Solid	7471B	623740
460-185779-A-23-I DU	Duplicate	Total/NA	Solid	7471B	623740

Analysis Batch: 623857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	6020B	623769
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	6020B	623769
MB 460-623769/1-A ^20	Method Blank	Total/NA	Solid	6020B	623769
LCSSRM 460-623769/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	623769
460-186213-E-1-C MS ^20	Matrix Spike	Total/NA	Solid	6020B	623769
460-186213-E-1-B DU ^20	Duplicate	Total/NA	Solid	6020B	623769

Prep Batch: 624023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	7471B	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	7471B	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	7471B	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	7471B	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	7471B	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	7471B	
MB 460-624023/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-624023/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-186095-C-13-D MS	Matrix Spike	Total/NA	Solid	7471B	
460-186095-C-13-C DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 624135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	7471B	624023
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	7471B	624023
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	7471B	624023
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	7471B	624023
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	7471B	624023
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	7471B	624023
MB 460-624023/1-A	Method Blank	Total/NA	Solid	7471B	624023
LCSSRM 460-624023/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	624023
460-186095-C-13-D MS	Matrix Spike	Total/NA	Solid	7471B	624023
460-186095-C-13-C DU	Duplicate	Total/NA	Solid	7471B	624023

Analysis Batch: 624141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	6020B	623840
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	6020B	623840
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	6020B	623840

Eurofins TestAmerica, Edison

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Metals (Continued)

Analysis Batch: 624141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	6020B	623840
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	6020B	623840
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	6020B	623840
MB 460-623840/1-A ^20	Method Blank	Total/NA	Solid	6020B	623840
LCSSRM 460-623840/2-A ^5	Lab Control Sample	Total/NA	Solid	6020B	623840
460-186306-D-4-C MS ^20	Matrix Spike	Total/NA	Solid	6020B	623840
460-186306-D-4-B DU ^20	Duplicate	Total/NA	Solid	6020B	623840

Prep Batch: 624533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	3050B	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	3050B	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	3050B	
MB 460-624533/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCSSRM 460-624533/2-A ^1	Lab Control Sample	Total/NA	Solid	3050B	
460-186525-E-5-D MS ^20	Matrix Spike	Total/NA	Solid	3050B	
460-186525-E-5-C DU ^20	Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 624641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	6020B	624533
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	6020B	624533
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	6020B	624533
MB 460-624533/1-A ^20	Method Blank	Total/NA	Solid	6020B	624533
LCSSRM 460-624533/2-A ^1	Lab Control Sample	Total/NA	Solid	6020B	624533
460-186525-E-5-D MS ^20	Matrix Spike	Total/NA	Solid	6020B	624533
460-186525-E-5-C DU ^20	Duplicate	Total/NA	Solid	6020B	624533

Prep Batch: 624797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	7471B	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	7471B	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	7471B	
MB 460-624797/1-A	Method Blank	Total/NA	Solid	7471B	
LCSSRM 460-624797/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	
460-186632-G-1-G MS	Matrix Spike	Total/NA	Solid	7471B	
460-186632-G-1-F DU	Duplicate	Total/NA	Solid	7471B	

Analysis Batch: 624884

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	7471B	624797
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	7471B	624797
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	7471B	624797
MB 460-624797/1-A	Method Blank	Total/NA	Solid	7471B	624797
LCSSRM 460-624797/2-A ^4	Lab Control Sample	Total/NA	Solid	7471B	624797
460-186632-G-1-G MS	Matrix Spike	Total/NA	Solid	7471B	624797
460-186632-G-1-F DU	Duplicate	Total/NA	Solid	7471B	624797

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

General Chemistry

Analysis Batch: 624435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	Moisture	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	Moisture	
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	Moisture	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	Moisture	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	Moisture	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	Moisture	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	Moisture	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	Moisture	
460-186125-B-1 DU	Duplicate	Total/NA	Solid	Moisture	

Prep Batch: 624562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	3060A	
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	3060A	
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	3060A	
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	3060A	
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	3060A	
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	3060A	
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	3060A	
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	3060A	
MB 460-624562/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-624562/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-624562/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-186281-8 MSI	SB-04_3-5_20190710	Total/NA	Solid	3060A	
460-186281-8 MSS	SB-04_3-5_20190710	Total/NA	Solid	3060A	
460-186281-8 DU	SB-04_3-5_20190710	Total/NA	Solid	3060A	

Analysis Batch: 624601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186281-1	SB-01_0-2_20190710	Total/NA	Solid	7196A	624562
460-186281-2	SB-01_10-12_20190710	Total/NA	Solid	7196A	624562
460-186281-3	SB-02_0-2_20190710	Total/NA	Solid	7196A	624562
460-186281-4	SB-02_10-12_20190710	Total/NA	Solid	7196A	624562
460-186281-5	SB-05_0-2_20190710	Total/NA	Solid	7196A	624562
460-186281-6	SB-05_10-12_20190710	Total/NA	Solid	7196A	624562
460-186281-7	SB-04_0-2_20190710	Total/NA	Solid	7196A	624562
460-186281-8	SB-04_3-5_20190710	Total/NA	Solid	7196A	624562
MB 460-624562/1-A	Method Blank	Total/NA	Solid	7196A	624562
LCSI 460-624562/3-A	Lab Control Sample	Total/NA	Solid	7196A	624562
LCSSRM 460-624562/2-A	Lab Control Sample	Total/NA	Solid	7196A	624562
460-186281-8 MSI	SB-04_3-5_20190710	Total/NA	Solid	7196A	624562
460-186281-8 MSS	SB-04_3-5_20190710	Total/NA	Solid	7196A	624562
460-186281-8 DU	SB-04_3-5_20190710	Total/NA	Solid	7196A	624562

Analysis Batch: 624880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	Moisture	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	Moisture	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	Moisture	
460-186514-A-4 DU	Duplicate	Total/NA	Solid	Moisture	

Eurofins TestAmerica, Edison

QC Association Summary

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

General Chemistry

Prep Batch: 625164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	3060A	
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	3060A	
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	3060A	
MB 460-625164/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 460-625164/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSSRM 460-625164/2-A	Lab Control Sample	Total/NA	Solid	3060A	
460-186524-2 MSI	SB-06_0-2_20190712	Total/NA	Solid	3060A	
460-186524-2 MSS	SB-06_0-2_20190712	Total/NA	Solid	3060A	
460-186524-2 DU	SB-06_0-2_20190712	Total/NA	Solid	3060A	

Analysis Batch: 625198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186524-1	SB-03_0-2_20190712	Total/NA	Solid	7196A	625164
460-186524-2	SB-06_0-2_20190712	Total/NA	Solid	7196A	625164
460-186524-3	SB-06_5-7_20190712	Total/NA	Solid	7196A	625164
MB 460-625164/1-A	Method Blank	Total/NA	Solid	7196A	625164
LCSI 460-625164/3-A	Lab Control Sample	Total/NA	Solid	7196A	625164
LCSSRM 460-625164/2-A	Lab Control Sample	Total/NA	Solid	7196A	625164
460-186524-2 MSI	SB-06_0-2_20190712	Total/NA	Solid	7196A	625164
460-186524-2 MSS	SB-06_0-2_20190712	Total/NA	Solid	7196A	625164
460-186524-2 DU	SB-06_0-2_20190712	Total/NA	Solid	7196A	625164

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-01_0-2_20190710

Lab Sample ID: 460-186281-1

Date Collected: 07/10/19 08:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:14	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624018	07/12/19 14:02	DAS	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 05:18	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 11:18	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 10:30	JHP	TAL EDI
Total/NA	Prep	3050B			623769	07/11/19 07:28	GMC	TAL EDI
Total/NA	Analysis	6020B		20	623857	07/11/19 19:00	MDC	TAL EDI
Total/NA	Prep	7471B			623740	07/11/19 05:55	TJS	TAL EDI
Total/NA	Analysis	7471B		1	623851	07/11/19 10:58	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:03	RPR	TAL EDI

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:15	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624018	07/12/19 14:26	DAS	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 03:46	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 11:30	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 10:51	JHP	TAL EDI
Total/NA	Prep	3050B			623769	07/11/19 07:28	GMC	TAL EDI
Total/NA	Analysis	6020B		20	623857	07/11/19 19:07	MDC	TAL EDI

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-01_10-12_20190710

Lab Sample ID: 460-186281-2

Date Collected: 07/10/19 08:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			623740	07/11/19 05:55	TJS	TAL EDI
Total/NA	Analysis	7471B		1	623851	07/11/19 11:00	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:03	RPR	TAL EDI

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-02_0-2_20190710

Lab Sample ID: 460-186281-3

Date Collected: 07/10/19 09:20

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:17	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624018	07/12/19 14:51	DAS	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 05:41	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 11:42	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 11:10	JHP	TAL EDI
Total/NA	Prep	3050B			623840	07/11/19 10:31	BMP	TAL EDI
Total/NA	Analysis	6020B		20	624141	07/11/19 19:30	VAD	TAL EDI
Total/NA	Prep	7471B			624023	07/12/19 05:06	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624135	07/12/19 09:26	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:03	RPR	TAL EDI

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:19	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624018	07/12/19 15:16	DAS	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-02_10-12_20190710

Lab Sample ID: 460-186281-4

Date Collected: 07/10/19 09:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 02:13	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 11:55	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 11:29	JHP	TAL EDI
Total/NA	Prep	3050B			623840	07/11/19 10:31	BMP	TAL EDI
Total/NA	Analysis	6020B		20	624141	07/11/19 19:32	VAD	TAL EDI
Total/NA	Prep	7471B			624023	07/12/19 05:06	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624135	07/12/19 09:31	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:03	RPR	TAL EDI

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-05_0-2_20190710

Lab Sample ID: 460-186281-5

Date Collected: 07/10/19 11:10

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:20	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624018	07/12/19 15:41	DAS	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 06:28	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 12:07	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 14:56	JHP	TAL EDI
Total/NA	Prep	3050B			623840	07/11/19 10:31	BMP	TAL EDI
Total/NA	Analysis	6020B		20	624141	07/11/19 19:34	VAD	TAL EDI
Total/NA	Prep	7471B			624023	07/12/19 05:06	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624135	07/12/19 09:33	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:03	RPR	TAL EDI

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-05_10-12_20190710

Lab Sample ID: 460-186281-6

Date Collected: 07/10/19 11:35

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:22	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624018	07/12/19 16:06	DAS	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 06:51	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 10:41	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 09:29	JHP	TAL EDI
Total/NA	Prep	3050B			623840	07/11/19 10:31	BMP	TAL EDI
Total/NA	Analysis	6020B		20	624141	07/11/19 19:36	VAD	TAL EDI
Total/NA	Prep	7471B			624023	07/12/19 05:06	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624135	07/12/19 09:35	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:03	RPR	TAL EDI

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:24	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624520	07/15/19 10:35	AAT	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 04:32	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 12:19	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 15:17	JHP	TAL EDI
Total/NA	Prep	3050B			623840	07/11/19 10:31	BMP	TAL EDI
Total/NA	Analysis	6020B		20	624141	07/11/19 19:39	VAD	TAL EDI

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-04_0-2_20190710

Lab Sample ID: 460-186281-7

Date Collected: 07/10/19 13:45

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 91.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			624023	07/12/19 05:06	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624135	07/12/19 09:37	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 14:46	RPR	TAL EDI

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624435	07/14/19 02:11	APV	TAL EDI

Client Sample ID: SB-04_3-5_20190710

Lab Sample ID: 460-186281-8

Date Collected: 07/10/19 13:50

Matrix: Solid

Date Received: 07/10/19 18:30

Percent Solids: 92.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			623780	07/11/19 08:25	DBM	TAL EDI
Total/NA	Analysis	8260C		1	624520	07/15/19 15:57	AAT	TAL EDI
Total/NA	Prep	3546			623796	07/11/19 08:56	DXD	TAL EDI
Total/NA	Analysis	8270D		1	623961	07/12/19 04:55	SK	TAL EDI
Total/NA	Prep	3546			623792	07/11/19 08:46	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624043	07/12/19 12:32	SAK	TAL EDI
Total/NA	Prep	3546			623789	07/11/19 08:38	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624037	07/12/19 15:38	JHP	TAL EDI
Total/NA	Prep	3050B			623840	07/11/19 10:31	BMP	TAL EDI
Total/NA	Analysis	6020B		20	624141	07/11/19 19:41	VAD	TAL EDI
Total/NA	Prep	7471B			624023	07/12/19 05:06	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624135	07/12/19 09:38	TJS	TAL EDI
Total/NA	Prep	3060A			624562	07/15/19 08:06	RPR	TAL EDI
Total/NA	Analysis	7196A		1	624601	07/15/19 13:17	RPR	TAL EDI

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624880	07/16/19 10:22	MMC	TAL EDI

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			624305	07/13/19 07:45	DBM	TAL EDI
Total/NA	Analysis	8260C		1	625335	07/18/19 02:16	AAT	TAL EDI

Eurofins TestAmerica, Edison

Lab Chronicle

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-03_0-2_20190712

Lab Sample ID: 460-186524-1

Date Collected: 07/12/19 08:50

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			624336	07/13/19 11:25	CPG	TAL EDI
Total/NA	Analysis	8270D		1	624425	07/14/19 06:56	YAH	TAL EDI
Total/NA	Prep	3546			624580	07/15/19 09:15	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624948	07/16/19 18:55	SAK	TAL EDI
Total/NA	Prep	3546			624576	07/15/19 08:59	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624824	07/16/19 17:00	JHP	TAL EDI
Total/NA	Prep	3050B			624533	07/15/19 05:13	GMC	TAL EDI
Total/NA	Analysis	6020B		20	624641	07/15/19 17:01	MDC	TAL EDI
Total/NA	Prep	7471B			624797	07/16/19 04:41	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624884	07/16/19 09:41	TJS	TAL EDI
Total/NA	Prep	3060A			625164	07/17/19 08:37	RPR	TAL EDI
Total/NA	Analysis	7196A		1	625198	07/17/19 13:56	RPR	TAL EDI

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624880	07/16/19 10:22	MMC	TAL EDI

Client Sample ID: SB-06_0-2_20190712

Lab Sample ID: 460-186524-2

Date Collected: 07/12/19 12:15

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			624305	07/13/19 07:46	DBM	TAL EDI
Total/NA	Analysis	8260C		1	625335	07/18/19 02:42	AAT	TAL EDI
Total/NA	Prep	3546			624336	07/13/19 11:25	CPG	TAL EDI
Total/NA	Analysis	8270D		1	624425	07/14/19 10:01	YAH	TAL EDI
Total/NA	Prep	3546			624580	07/15/19 09:15	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624948	07/16/19 19:11	SAK	TAL EDI
Total/NA	Prep	3546			624576	07/15/19 08:59	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624824	07/16/19 17:17	JHP	TAL EDI
Total/NA	Prep	3050B			624533	07/15/19 05:13	GMC	TAL EDI
Total/NA	Analysis	6020B		20	624641	07/15/19 17:04	MDC	TAL EDI
Total/NA	Prep	7471B			624797	07/16/19 04:41	TJS	TAL EDI
Total/NA	Analysis	7471B		2	624884	07/16/19 10:17	TJS	TAL EDI
Total/NA	Prep	3060A			625164	07/17/19 08:37	RPR	TAL EDI
Total/NA	Analysis	7196A		1	625198	07/17/19 13:56	RPR	TAL EDI

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	624880	07/16/19 10:22	MMC	TAL EDI

Client Sample ID: SB-06_5-7_20190712

Lab Sample ID: 460-186524-3

Date Collected: 07/12/19 12:35

Matrix: Solid

Date Received: 07/12/19 18:30

Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			624305	07/13/19 07:47	DBM	TAL EDI
Total/NA	Analysis	8260C		1	625335	07/18/19 03:07	AAT	TAL EDI
Total/NA	Prep	3546			624336	07/13/19 11:25	CPG	TAL EDI
Total/NA	Analysis	8270D		1	624506	07/15/19 04:40	YAH	TAL EDI
Total/NA	Prep	3546			624580	07/15/19 09:15	YXY	TAL EDI
Total/NA	Analysis	8081B		1	624948	07/16/19 19:26	SAK	TAL EDI
Total/NA	Prep	3546			624576	07/15/19 08:59	IUD	TAL EDI
Total/NA	Analysis	8082A		1	624824	07/16/19 17:34	JHP	TAL EDI
Total/NA	Prep	3050B			624533	07/15/19 05:13	GMC	TAL EDI
Total/NA	Analysis	6020B		20	624641	07/15/19 17:06	MDC	TAL EDI
Total/NA	Prep	7471B			624797	07/16/19 04:41	TJS	TAL EDI
Total/NA	Analysis	7471B		1	624884	07/16/19 10:19	TJS	TAL EDI
Total/NA	Prep	3060A			625164	07/17/19 08:38	RPR	TAL EDI
Total/NA	Analysis	7196A		1	625198	07/17/19 14:58	RPR	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3546	Solid	Polychlorinated biphenyls, Total
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7471B	Mercury (CVAA)	SW846	TAL EDI
7196A	Chromium, Hexavalent	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
3050B	Preparation, Metals	SW846	TAL EDI
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	TAL EDI
3546	Microwave Extraction	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
7471B	Preparation, Mercury	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186281-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-186281-1	SB-01_0-2_20190710	Solid	07/10/19 08:10	07/10/19 18:30	
460-186281-2	SB-01_10-12_20190710	Solid	07/10/19 08:45	07/10/19 18:30	
460-186281-3	SB-02_0-2_20190710	Solid	07/10/19 09:20	07/10/19 18:30	
460-186281-4	SB-02_10-12_20190710	Solid	07/10/19 09:35	07/10/19 18:30	
460-186281-5	SB-05_0-2_20190710	Solid	07/10/19 11:10	07/10/19 18:30	
460-186281-6	SB-05_10-12_20190710	Solid	07/10/19 11:35	07/10/19 18:30	
460-186281-7	SB-04_0-2_20190710	Solid	07/10/19 13:45	07/10/19 18:30	
460-186281-8	SB-04_3-5_20190710	Solid	07/10/19 13:50	07/10/19 18:30	
460-186524-1	SB-03_0-2_20190712	Solid	07/12/19 08:50	07/12/19 18:30	
460-186524-2	SB-06_0-2_20190712	Solid	07/12/19 12:15	07/12/19 18:30	
460-186524-3	SB-06_5-7_20190712	Solid	07/12/19 12:35	07/12/19 18:30	

Client Information		Sampler: Jacob Menken		Lab P/N: Bennett, Allison L		Carrier Tracking No(s):		COC No: 460-115331-74156.2	
Client Contact: Ms. Adriana Bosco		Phone: 94-552-7694		E-Mail: allison.bennett@testamericainc.com		Page: 1 of 1		Job #: 186281	
Company: AKRF Inc		Due Date Requested:		Analysis Requested		Preservation Codes:		M - Hexane	
Address: 440 Park Avenue South 7th Floor		TAT Requested (days): 5 day rush (standard)		8260C - TCL VOCs (pres code A for VOA vials)		A - HCl		N - None	
City: New York		PO #: 190204		8270D - TCL BNA		B - NaOH		P - Na2OAS	
State, Zip: NY, 10016		WO #: 190204		8081B - TCL Pesticides, 8082A - PCBs		C - Zn Acetate		Q - Na2SO3	
Phone:		Project #: 46030002		8020B/747B - TAL Metals w/ Hg (soil)		D - Nitric Acid		R - Na2S2O3	
Email: abosco@akrf.com		SSOW#:		7196A - Hexavalent Chromium (soil)		E - NaHSO4		S - H2SO4	
Project Name: 521 East Tremont Avenue #190204		Sample Date		8208B/747A - Dissolved TAL Metals w/ Hg (Field Filtered)		F - MeOH		T - TSP Dodecahydrate	
Site: 521 East Tremont Avenue, Bronx, NY		Sample Time		6020B/7470A - Total TAL Metals w/ Hg (water)		G - Amchlor		U - Acetone	
Sample Identification		Sample Type (C=Comp, G=grab)		Field Filtered Sample (Yes or No)		H - Ascorbic Acid		V - MCAA	
SB-01-0-2-20190710		WATER		X		I - Ice		W - pH 4.5	
SB-01-10-12-20190710		SOIL		X		J - DI Water		L - EDA	
SB-02-0-2-20190710		810		X		K - EDTA		Z - other (specify)	
SB-02-10-12-20190710		845		X		L - EDA		Other:	
SB-03-0-2-20190710		925		X		Total Number of containers		Special Instru	
SB-03-10-12-20190710		935		X		8260C - TCL VOCs (pres code A for VOA vials)		1	
SB-05-0-2-20190710		1110		X		8270D - TCL BNA		2	
SB-05-10-12-20190710		1135		X		8081B - TCL Pesticides, 8082A - PCBs		3	
SB-04-0-2-20190710		1345		X		8020B/747B - TAL Metals w/ Hg (soil)		4	
SB-04-35-20190710		1350		X		7196A - Hexavalent Chromium (soil)		5	
						6020B/7470A - Total TAL Metals w/ Hg (water)		6	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		7	
						8260C - TCL VOCs (pres code A for VOA vials)		8	
						8270D - TCL BNA		9	
						8081B - TCL Pesticides, 8082A - PCBs		10	
						8020B/747B - TAL Metals w/ Hg (soil)		11	
						7196A - Hexavalent Chromium (soil)		12	
						6020B/7470A - Total TAL Metals w/ Hg (water)		13	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		14	
						8260C - TCL VOCs (pres code A for VOA vials)		15	
						8270D - TCL BNA		16	
						8081B - TCL Pesticides, 8082A - PCBs		17	
						8020B/747B - TAL Metals w/ Hg (soil)		18	
						7196A - Hexavalent Chromium (soil)		19	
						6020B/7470A - Total TAL Metals w/ Hg (water)		20	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		21	
						8260C - TCL VOCs (pres code A for VOA vials)		22	
						8270D - TCL BNA		23	
						8081B - TCL Pesticides, 8082A - PCBs		24	
						8020B/747B - TAL Metals w/ Hg (soil)		25	
						7196A - Hexavalent Chromium (soil)		26	
						6020B/7470A - Total TAL Metals w/ Hg (water)		27	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		28	
						8260C - TCL VOCs (pres code A for VOA vials)		29	
						8270D - TCL BNA		30	
						8081B - TCL Pesticides, 8082A - PCBs		31	
						8020B/747B - TAL Metals w/ Hg (soil)		32	
						7196A - Hexavalent Chromium (soil)		33	
						6020B/7470A - Total TAL Metals w/ Hg (water)		34	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		35	
						8260C - TCL VOCs (pres code A for VOA vials)		36	
						8270D - TCL BNA		37	
						8081B - TCL Pesticides, 8082A - PCBs		38	
						8020B/747B - TAL Metals w/ Hg (soil)		39	
						7196A - Hexavalent Chromium (soil)		40	
						6020B/7470A - Total TAL Metals w/ Hg (water)		41	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		42	
						8260C - TCL VOCs (pres code A for VOA vials)		43	
						8270D - TCL BNA		44	
						8081B - TCL Pesticides, 8082A - PCBs		45	
						8020B/747B - TAL Metals w/ Hg (soil)		46	
						7196A - Hexavalent Chromium (soil)		47	
						6020B/7470A - Total TAL Metals w/ Hg (water)		48	
						6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)		49	
						8260C - TCL VOCs (pres code A for VOA vials)		50	



TestAmerica Edison
 Receipt Temperature and pH Log

Job Number: 186281

Number of Coolers: <u>7</u>		IR Gun # <u>9</u>	
Cooler Temperatures			
Cooler #:	RAW	CORRECTED	
	°C	°C	°C
Cooler #1: <u>24</u>	°C	<u>24</u>	Cooler #7: _____ °C
Cooler #2: _____	°C		Cooler #8: _____ °C
Cooler #3: _____	°C		Cooler #9: _____ °C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s) adjusted: _____
 Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____
 Lot # of Preservative(s): _____ Expiration Date: _____
 The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
 * Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: _____
 Date: 7/19/19



Client Information
 Client Contact: Ms. Adriana Bosco
 Company: AKRF Inc
 Address: 440 Park Avenue South 7th Floor
 City: New York
 State Zip: NY, 10016
 Phone: PO # 190204
 Email: abosco@akrf.com
 Project Name: 521 East Tremont Avenue #190204
 Site: 521 East Tremont Avenue, Bronx, NY
 SSW#: SSW#

Sampler: Jacob Menken
 Phone: 914-552-7694
 Lab PM: Allison L
 Email: allison.bennett@estamfrinc.com
 Carrier Tracking No(s):
 COC No: 480-115331-741562
 Page: Page 2 of 2
 Job #: 186524

Due Date Requested:
 TAT Requested (days): 5 day rush (standard)
 Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C-comp, G-grab)	Matrix (Water, Soil, Over-sat, etc.)	Preservation Code:	Field Filtered Sample (Yes/No)	8260C - TCL VOCs (pres code A for VOA vials)	8270D - TCL BNA	8081B - TCL Pesticides, 8082A - PCBs	6020B/7471B - TAL Metals w/ Hg (soil)	7198A - Hexavalent Chromium (soil)	6020B/7470A - Total TAL Metals w/ Hg (water)	6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)	Total Number of containers	Special Instructions/Note:
SB-03-0-2-20190712	7/12/19	850		SM		X	X	X	X	X				6	
SB-06-0-2-20190713		1315				X	X	X	X	X				6	
SB-06-5-3-20190712		1235				X	X	X	X	X				6	

SHORT HOLD



Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (Specify) Cat A Deliverables
 Empty Kit Relinquished by: Date: Close SDG

Relinquished by: *John Stockmeyer*
 Date: 7/12/19
 Time: 1900
 Company: ABER

Relinquished by: *[Signature]*
 Date: 7/12/19
 Time: 1830
 Company: O, U

Relinquished by: *[Signature]*
 Date: 7/12/19
 Time: 1830
 Company: O, U

2. 7/12-7 IN RP

TestAmerica Edison
Receipt Temperature and pH Log

Job Number:

186524

Number of Coolers:	IR Gun	Cooler Temperatures								
		Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7	Cooler #8	Cooler #9
		Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp	Temp
		°C	°C	°C	°C	°C	°C	°C	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate (pH<2)	Nitrite (pH<2)	Metals * (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	Eph or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s), adjusted: _____

Preservative Name/Conc: _____

Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____

Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
 * Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: _____

Date: 7/12/15

Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-186281-1

Login Number: 186281

List Number: 1

Creator: Jara, Kelly D

List Source: Eurofins TestAmerica, Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-186281-1

Login Number: 186524

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: DiGuardia, Joseph L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-186299-1

Client Project/Site: 521 East Tremont Avenue #190204

For:

AKRF Inc
440 Park Avenue South
7th Floor
New York, New York 10016

Attn: Ms. Adrianna Bosco



Authorized for release by:
7/23/2019 1:12:37 PM

Thomas Chupela, Project Management Assistant I
thomas.chupela@testamericainc.com

Designee for

Allison Bennett, Project Manager I
(732)593-2517

allison.bennett@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Thomas Chupela
Project Management Assistant I
7/23/2019 1:12:37 PM



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Definitions/Glossary

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits
*	MS or MSD is outside acceptance limits.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	Duplicate RPD exceeds control limits
*	Surrogate is outside acceptance limits.
*	MS or MSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
J	Indicates an estimated value.
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Definitions/Glossary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Case Narrative

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Job ID: 460-186299-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: AKRF Inc

Project: 521 East Tremont Avenue #190204

Report Number: 460-186299-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 7/10/2019 6:30 PM and 7/12/2019 6:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4° C and 2.7° C.

Receipt Exceptions

Per laboratory policy, the trip blank sample date/time was added to reflect the latest date/time of the sampling event.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1), TW-02_20190710 (460-186299-2) and Trip Blank_20190710 (460-186299-3) were analyzed for Volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 8260C. The samples were analyzed on 07/12/2019 and 07/18/2019.

The continuing calibration verification (CCV) analyzed in batch 460-624021 was outside the method criteria for the following analyte(s): Bromoform (biased low) and Chloromethane (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for analytical batch 460-624021 recovered outside control limits for the following analyte: Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The continuing calibration verification (CCV) analyzed in batch 460-624221 was outside the method criteria for the following analyte(s): 1,2,3-Trichlorobenzene and Bromoform (biased low); Chloromethane (biased high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Case Narrative

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Job ID: 460-186299-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

The continuing calibration verification (CCV) analyzed in batch 460-625284 was outside the method criteria for the following analytes: 1,4-Dioxane (bias high), 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and Bromoform (bias low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-625284 recovered outside control limits for the following analytes: 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and 1,4-Dioxane.

2-Butanone (MEK), cis-1,2-Dichloroethene and Trichloroethene failed the recovery criteria high for the MSD of sample TW-05_20190710MSD (460-186299-1) in batch 460-624021. 1,4-Dioxane exceeded the RPD limit.

Refer to the QC report for details.

No other difficulties were encountered during the volatiles analysis.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for semivolatile organic compounds (GC/MS) in accordance with EPA SW-846 Method 8270D. The samples were prepared on 07/11/2019 and 07/14/2019 and analyzed on 07/12/2019 and 07/15/2019.

The continuing calibration verification (CCV) analyzed in batch 460-623957 was outside the method criteria for the following analyte(s): 2-Nitroaniline, Hexachlorocyclopentadiene and Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The laboratory control sample (LCS) for preparation batch 460-623788 and analytical batch 460-623957 recovered outside control limits for the following analytes: Benzaldehyde. The LCSD recovery was within limits; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-623788 and analytical batch 460-623957 recovered outside control limits for the following analytes: Caprolactam, Benzaldehyde and Atrazine.

The following laboratory control sample (LCS) associated with batch 460-624444 contained one acid/base surrogate outside acceptance limits:(LCS 460-624444/2-A). The laboratory's SOP allows one acid and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch preparation batch 460-624444 and analytical batch 460-624502 recovered outside control limits for the following analytes: 2-Chlorophenol, 2-Methylphenol, 4-Methylphenol, N-Nitrosodi-n-propylamine and Phenol.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 460-624444 and analytical batch 460-624502 recovered outside control limits for the following analytes: Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorobenzene, Hexachlorobutadiene and Indeno[1,2,3-cd]pyrene. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl, 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for 460-186201-H-4-A MS.

2,4,6-Tribromophenol (Surr), 2-Fluorobiphenyl, 2-Fluorophenol (Surr), Nitrobenzene-d5 (Surr), Phenol-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for 460-186201-F-4-A MSD.

For the MSD of sample 460-186201-4 in batch 460-623957, Several analytes failed the recovery criteria low. 2,4-Dimethylphenol and Chrysene failed the recovery criteria high. Also, Several analytes exceeded the RPD limit.

Case Narrative

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Job ID: 460-186299-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

Several analytes failed the recovery criteria low for the MS of sample 460-186201-4 in batch 460-623957.

For the MSD of sample 460-186494-7 in batch 460-624502, 4-Methylphenol failed the recovery criteria low. Several analytes failed the recovery criteria high. Also, 4-Chloroaniline and Caprolactam exceeded the RPD limit.

Benzo[g,h,i]perylene, Dibenz(a,h)anthracene, Hexachlorobutadiene and Indeno[1,2,3-cd]pyrene failed the recovery criteria high for the MS of sample 460-186494-7 in batch 460-624502.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

PESTICIDES

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for Pesticides in accordance with EPA SW-846 Methods 8081B. The samples were prepared on 07/13/2019 and 07/14/2019 and analyzed on 07/14/2019 and 07/15/2019.

No difficulties were encountered during the pesticides analysis.

All quality control parameters were within the acceptance limits.

POLYCHLORINATED BIPHENYLS (PCBS)

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA SW-846 Method 8082A. The samples were prepared on 07/13/2019 and 07/14/2019 and analyzed on 07/14/2019 and 07/15/2019.

No difficulties were encountered during the PCBs analysis.

All quality control parameters were within the acceptance limits.

METALS (ICP)

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for Metals (ICP) in accordance with 6020B. The samples were prepared on 07/11/2019 and 07/16/2019 and analyzed on 07/12/2019 and 07/16/2019.

Several analytes failed the recovery criteria low for the MS of sample 460-186297-4 in batch 460-626313.

Calcium, Magnesium and Sodium failed the recovery criteria high for the MS of sample TW-05_20190710MS (460-186299-1) in batch 460-624141.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the Metals (ICP) analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for Metals in accordance with 6020B. The samples were prepared on 07/11/2019 and 07/15/2019 and analyzed on 07/12/2019 and

Case Narrative

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Job ID: 460-186299-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

07/15/2019.

Calcium and Sodium failed the recovery criteria low for the MS of sample 460-185931-1 in batch 460-624161.

Sodium failed the recovery criteria low for the MS of sample TW-03_20190712MS (460-186563-1) in batch 460-624896. Calcium failed the recovery criteria high.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Sample TW-02_20190710 (460-186299-2)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

DISSOLVED MERCURY

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for dissolved mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 07/15/2019 and 07/17/2019.

No difficulties were encountered during the dissolved Hg analysis.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples TW-05_20190710 (460-186299-1), TW-03_20190712 (460-186563-1) and TW-02_20190710 (460-186299-2) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 07/15/2019 and 07/17/2019.

No difficulties were encountered during the Hg analysis.

All quality control parameters were within the acceptance limits.

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.22	ug/L	1		8260C	Total/NA
Methylene Chloride	0.81	J	1.0	0.32	ug/L	1		8260C	Total/NA
Tetrachloroethene	57		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	0.54	J	1.0	0.31	ug/L	1		8260C	Total/NA
Aluminum	41.7		40.0	18.8	ug/L	2		6020B	Total/NA
Antimony	0.48	J	2.0	0.40	ug/L	2		6020B	Total/NA
Barium	112		4.0	1.2	ug/L	2		6020B	Total/NA
Calcium	157000		200	98.8	ug/L	2		6020B	Total/NA
Cobalt	2.1	J	4.0	1.6	ug/L	2		6020B	Total/NA
Iron	80.0	J	120	51.1	ug/L	2		6020B	Total/NA
Magnesium	32600		200	73.7	ug/L	2		6020B	Total/NA
Manganese	193		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	3.8	J	4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	12500		200	86.7	ug/L	2		6020B	Total/NA
Selenium	6.1	J	10.0	5.4	ug/L	2		6020B	Total/NA
Sodium	260000		200	128	ug/L	2		6020B	Total/NA
Barium	103		4.0	1.2	ug/L	2		6020B	Dissolved
Calcium	153000		200	98.8	ug/L	2		6020B	Dissolved
Cobalt	1.9	J	4.0	1.6	ug/L	2		6020B	Dissolved
Magnesium	29900		200	73.7	ug/L	2		6020B	Dissolved
Manganese	179		8.0	2.9	ug/L	2		6020B	Dissolved
Nickel	2.9	J	4.0	2.4	ug/L	2		6020B	Dissolved
Potassium	12300		200	86.7	ug/L	2		6020B	Dissolved
Selenium	7.1	J	10.0	5.4	ug/L	2		6020B	Dissolved
Sodium	231000		200	128	ug/L	2		6020B	Dissolved

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.1		1.0	0.26	ug/L	1		8260C	Total/NA
Acetone	12		5.0	4.4	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	64		1.0	0.22	ug/L	1		8260C	Total/NA
Methylene Chloride	0.86	J	1.0	0.32	ug/L	1		8260C	Total/NA
Tetrachloroethene	200		1.0	0.25	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.95	J	1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	120		1.0	0.31	ug/L	1		8260C	Total/NA
Vinyl chloride	14		1.0	0.17	ug/L	1		8260C	Total/NA
Aluminum	13700		40.0	18.8	ug/L	2		6020B	Total/NA
Antimony	0.52	J	2.0	0.40	ug/L	2		6020B	Total/NA
Arsenic	4.3		2.0	0.73	ug/L	2		6020B	Total/NA
Barium	377		4.0	1.2	ug/L	2		6020B	Total/NA
Beryllium	1.7		0.80	0.25	ug/L	2		6020B	Total/NA
Calcium	358000		1000	494	ug/L	10		6020B	Total/NA
Chromium	97.0		4.0	2.3	ug/L	2		6020B	Total/NA
Cobalt	37.4		4.0	1.6	ug/L	2		6020B	Total/NA
Copper	106		4.0	2.0	ug/L	2		6020B	Total/NA
Iron	55000		120	51.1	ug/L	2		6020B	Total/NA
Lead	79.8		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	82100		200	73.7	ug/L	2		6020B	Total/NA
Manganese	2560		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	44.3		4.0	2.4	ug/L	2		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-02_20190710 (Continued)

Lab Sample ID: 460-186299-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	14500		200	86.7	ug/L	2		6020B	Total/NA
Sodium	160000		200	128	ug/L	2		6020B	Total/NA
Thallium	0.36	J	0.80	0.16	ug/L	2		6020B	Total/NA
Vanadium	106		4.0	1.1	ug/L	2		6020B	Total/NA
Zinc	204		16.0	11.1	ug/L	2		6020B	Total/NA
Aluminum	203		40.0	18.8	ug/L	2		6020B	Dissolved
Barium	105		4.0	1.2	ug/L	2		6020B	Dissolved
Calcium	408000		1000	494	ug/L	10		6020B	Dissolved
Cobalt	8.9		4.0	1.6	ug/L	2		6020B	Dissolved
Iron	1790		120	51.1	ug/L	2		6020B	Dissolved
Lead	1.1	J	1.2	0.55	ug/L	2		6020B	Dissolved
Magnesium	83600		200	73.7	ug/L	2		6020B	Dissolved
Manganese	2110		8.0	2.9	ug/L	2		6020B	Dissolved
Nickel	9.0		4.0	2.4	ug/L	2		6020B	Dissolved
Potassium	16300		200	86.7	ug/L	2		6020B	Dissolved
Sodium	186000		200	128	ug/L	2		6020B	Dissolved
Vanadium	1.3	J	4.0	1.1	ug/L	2		6020B	Dissolved
Zinc	12.5	J	16.0	11.1	ug/L	2		6020B	Dissolved
Mercury	0.26		0.20	0.12	ug/L	1		7470A	Total/NA

Client Sample ID: Trip Blank_20190710

Lab Sample ID: 460-186299-3

No Detections.

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.50	J	1.0	0.32	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.4		1.0	0.25	ug/L	1		8260C	Total/NA
Aluminum	614		40.0	18.8	ug/L	2		6020B	Total/NA
Barium	138		4.0	1.2	ug/L	2		6020B	Total/NA
Calcium	180000		200	98.8	ug/L	2		6020B	Total/NA
Chromium	3.4	J	4.0	2.3	ug/L	2		6020B	Total/NA
Cobalt	3.4	J	4.0	1.6	ug/L	2		6020B	Total/NA
Copper	3.3	J	4.0	2.0	ug/L	2		6020B	Total/NA
Iron	1370		120	51.1	ug/L	2		6020B	Total/NA
Lead	1.5		1.2	0.55	ug/L	2		6020B	Total/NA
Magnesium	41000		200	73.7	ug/L	2		6020B	Total/NA
Manganese	183		8.0	2.9	ug/L	2		6020B	Total/NA
Nickel	3.4	J	4.0	2.4	ug/L	2		6020B	Total/NA
Potassium	9240		200	86.7	ug/L	2		6020B	Total/NA
Sodium	350000		200	128	ug/L	2		6020B	Total/NA
Vanadium	2.8	J	4.0	1.1	ug/L	2		6020B	Total/NA
Barium	162		4.0	1.2	ug/L	2		6020B	Dissolved
Calcium	213000		200	98.8	ug/L	2		6020B	Dissolved
Cobalt	3.0	J	4.0	1.6	ug/L	2		6020B	Dissolved
Magnesium	47300		200	73.7	ug/L	2		6020B	Dissolved
Manganese	184		8.0	2.9	ug/L	2		6020B	Dissolved
Nickel	2.7	J	4.0	2.4	ug/L	2		6020B	Dissolved
Potassium	10700		200	86.7	ug/L	2		6020B	Dissolved
Selenium	5.7	J	10.0	5.4	ug/L	2		6020B	Dissolved
Sodium	396000		200	128	ug/L	2		6020B	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Detection Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-03_20190712 (Continued)

Lab Sample ID: 460-186563-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	1.1	J	4.0	1.1	ug/L	2		6020B	Dissolved

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Date Collected: 07/10/19 12:45

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/12/19 09:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/12/19 09:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/12/19 09:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 09:18	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/12/19 09:18	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/12/19 09:18	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			07/12/19 09:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			07/12/19 09:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/12/19 09:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/12/19 09:18	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 09:18	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/12/19 09:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/12/19 09:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/12/19 09:18	1
1,4-Dioxane	50	U	50	28	ug/L			07/12/19 09:18	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/12/19 09:18	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/12/19 09:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/12/19 09:18	1
Acetone	5.0	U	5.0	4.4	ug/L			07/12/19 09:18	1
Benzene	1.0	U	1.0	0.20	ug/L			07/12/19 09:18	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/12/19 09:18	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/12/19 09:18	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/12/19 09:18	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/12/19 09:18	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/12/19 09:18	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/12/19 09:18	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/12/19 09:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/12/19 09:18	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/12/19 09:18	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/12/19 09:18	1
cis-1,2-Dichloroethene	1.4		1.0	0.22	ug/L			07/12/19 09:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/12/19 09:18	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/12/19 09:18	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/12/19 09:18	1
Dichlorodifluoromethane	1.0	U *	1.0	0.31	ug/L			07/12/19 09:18	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/12/19 09:18	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/12/19 09:18	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/12/19 09:18	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/12/19 09:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/12/19 09:18	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/12/19 09:18	1
Methylene Chloride	0.81	J	1.0	0.32	ug/L			07/12/19 09:18	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/12/19 09:18	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/12/19 09:18	1
Styrene	1.0	U	1.0	0.42	ug/L			07/12/19 09:18	1
Tetrachloroethene	57		1.0	0.25	ug/L			07/12/19 09:18	1
Toluene	1.0	U	1.0	0.38	ug/L			07/12/19 09:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/12/19 09:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/12/19 09:18	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Date Collected: 07/10/19 12:45

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	0.54	J	1.0	0.31	ug/L			07/12/19 09:18	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/12/19 09:18	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			07/12/19 09:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		74 - 132		07/12/19 09:18	1
4-Bromofluorobenzene	98		77 - 124		07/12/19 09:18	1
Dibromofluoromethane (Surr)	110		72 - 131		07/12/19 09:18	1
Toluene-d8 (Surr)	101		80 - 120		07/12/19 09:18	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		07/11/19 08:33	07/12/19 01:38	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,4-Dinitrophenol	20	U	20	14	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		07/11/19 08:33	07/12/19 01:38	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		07/11/19 08:33	07/12/19 01:38	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		07/11/19 08:33	07/12/19 01:38	1
2-Chlorophenol	10	U	10	0.38	ug/L		07/11/19 08:33	07/12/19 01:38	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:38	1
2-Methylphenol	10	U	10	0.26	ug/L		07/11/19 08:33	07/12/19 01:38	1
2-Nitroaniline	10	U	10	0.47	ug/L		07/11/19 08:33	07/12/19 01:38	1
2-Nitrophenol	10	U	10	0.75	ug/L		07/11/19 08:33	07/12/19 01:38	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		07/11/19 08:33	07/12/19 01:38	1
3-Nitroaniline	10	U	10	0.96	ug/L		07/11/19 08:33	07/12/19 01:38	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Chloroaniline	10	U	10	1.9	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Methylphenol	10	U	10	0.24	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Nitroaniline	10	U	10	0.54	ug/L		07/11/19 08:33	07/12/19 01:38	1
4-Nitrophenol	20	U	20	0.69	ug/L		07/11/19 08:33	07/12/19 01:38	1
Acenaphthene	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:38	1
Acenaphthylene	10	U	10	0.82	ug/L		07/11/19 08:33	07/12/19 01:38	1
Acetophenone	10	U	10	0.79	ug/L		07/11/19 08:33	07/12/19 01:38	1
Anthracene	10	U	10	0.63	ug/L		07/11/19 08:33	07/12/19 01:38	1
Atrazine	2.0	U *	2.0	1.3	ug/L		07/11/19 08:33	07/12/19 01:38	1
Benzaldehyde	10	U *	10	0.59	ug/L		07/11/19 08:33	07/12/19 01:38	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		07/11/19 08:33	07/12/19 01:38	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		07/11/19 08:33	07/12/19 01:38	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		07/11/19 08:33	07/12/19 01:38	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		07/11/19 08:33	07/12/19 01:38	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		07/11/19 08:33	07/12/19 01:38	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Date Collected: 07/10/19 12:45

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		07/11/19 08:33	07/12/19 01:38	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		07/11/19 08:33	07/12/19 01:38	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		07/11/19 08:33	07/12/19 01:38	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		07/11/19 08:33	07/12/19 01:38	1
Caprolactam	10	U *	10	0.68	ug/L		07/11/19 08:33	07/12/19 01:38	1
Carbazole	10	U	10	0.68	ug/L		07/11/19 08:33	07/12/19 01:38	1
Chrysene	2.0	U	2.0	0.91	ug/L		07/11/19 08:33	07/12/19 01:38	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		07/11/19 08:33	07/12/19 01:38	1
Dibenzofuran	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:38	1
Diethyl phthalate	10	U	10	0.98	ug/L		07/11/19 08:33	07/12/19 01:38	1
Dimethyl phthalate	10	U	10	0.77	ug/L		07/11/19 08:33	07/12/19 01:38	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		07/11/19 08:33	07/12/19 01:38	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		07/11/19 08:33	07/12/19 01:38	1
Fluoranthene	10	U	10	0.84	ug/L		07/11/19 08:33	07/12/19 01:38	1
Fluorene	10	U	10	0.91	ug/L		07/11/19 08:33	07/12/19 01:38	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		07/11/19 08:33	07/12/19 01:38	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		07/11/19 08:33	07/12/19 01:38	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		07/11/19 08:33	07/12/19 01:38	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		07/11/19 08:33	07/12/19 01:38	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		07/11/19 08:33	07/12/19 01:38	1
Isophorone	10	U	10	0.80	ug/L		07/11/19 08:33	07/12/19 01:38	1
Naphthalene	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:38	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		07/11/19 08:33	07/12/19 01:38	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		07/11/19 08:33	07/12/19 01:38	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		07/11/19 08:33	07/12/19 01:38	1
Pentachlorophenol	20	U	20	1.4	ug/L		07/11/19 08:33	07/12/19 01:38	1
Phenanthrene	10	U	10	0.58	ug/L		07/11/19 08:33	07/12/19 01:38	1
Phenol	10	U	10	0.29	ug/L		07/11/19 08:33	07/12/19 01:38	1
Pyrene	10	U	10	1.6	ug/L		07/11/19 08:33	07/12/19 01:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	104		26 - 139	07/11/19 08:33	07/12/19 01:38	1
2-Fluorobiphenyl	93		45 - 107	07/11/19 08:33	07/12/19 01:38	1
2-Fluorophenol (Surr)	49		25 - 58	07/11/19 08:33	07/12/19 01:38	1
Nitrobenzene-d5 (Surr)	96		51 - 108	07/11/19 08:33	07/12/19 01:38	1
Phenol-d5 (Surr)	33		14 - 39	07/11/19 08:33	07/12/19 01:38	1
Terphenyl-d14 (Surr)	109		40 - 148	07/11/19 08:33	07/12/19 01:38	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		07/13/19 16:45	07/14/19 14:55	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		07/13/19 16:45	07/14/19 14:55	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 14:55	1
Aldrin	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 14:55	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		07/13/19 16:45	07/14/19 14:55	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 14:55	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		07/13/19 16:45	07/14/19 14:55	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		07/13/19 16:45	07/14/19 14:55	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 14:55	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		07/13/19 16:45	07/14/19 14:55	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Date Collected: 07/10/19 12:45

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 14:55	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		07/13/19 16:45	07/14/19 14:55	1
Endrin	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 14:55	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		07/13/19 16:45	07/14/19 14:55	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		07/13/19 16:45	07/14/19 14:55	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		07/13/19 16:45	07/14/19 14:55	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 14:55	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		07/13/19 16:45	07/14/19 14:55	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 14:55	1
Toxaphene	0.50	U	0.50	0.11	ug/L		07/13/19 16:45	07/14/19 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		10 - 150	07/13/19 16:45	07/14/19 14:55	1
DCB Decachlorobiphenyl	86		10 - 150	07/13/19 16:45	07/14/19 14:55	1
Tetrachloro-m-xylene	76		12 - 136	07/13/19 16:45	07/14/19 14:55	1
Tetrachloro-m-xylene	72		12 - 136	07/13/19 16:45	07/14/19 14:55	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:29	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:29	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	80		10 - 150	07/13/19 16:54	07/14/19 13:29	1
DCB Decachlorobiphenyl	85		10 - 150	07/13/19 16:54	07/14/19 13:29	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	41.7		40.0	18.8	ug/L		07/11/19 19:10	07/12/19 13:02	2
Antimony	0.48	J	2.0	0.40	ug/L		07/11/19 19:10	07/12/19 13:02	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/11/19 19:10	07/12/19 13:02	2
Barium	112		4.0	1.2	ug/L		07/11/19 19:10	07/12/19 13:02	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/11/19 19:10	07/12/19 13:02	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/11/19 19:10	07/12/19 13:02	2
Calcium	157000		200	98.8	ug/L		07/11/19 19:10	07/12/19 13:02	2
Chromium	4.0	U	4.0	2.3	ug/L		07/11/19 19:10	07/12/19 13:02	2
Cobalt	2.1	J	4.0	1.6	ug/L		07/11/19 19:10	07/12/19 13:02	2
Copper	4.0	U	4.0	2.0	ug/L		07/11/19 19:10	07/12/19 13:02	2
Iron	80.0	J	120	51.1	ug/L		07/11/19 19:10	07/12/19 13:02	2
Lead	1.2	U	1.2	0.55	ug/L		07/11/19 19:10	07/12/19 13:02	2
Magnesium	32600		200	73.7	ug/L		07/11/19 19:10	07/12/19 13:02	2
Manganese	193		8.0	2.9	ug/L		07/11/19 19:10	07/12/19 13:02	2

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Date Collected: 07/10/19 12:45

Matrix: Water

Date Received: 07/10/19 18:30

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	3.8	J	4.0	2.4	ug/L		07/11/19 19:10	07/12/19 13:02	2
Potassium	12500		200	86.7	ug/L		07/11/19 19:10	07/12/19 13:02	2
Selenium	6.1	J	10.0	5.4	ug/L		07/11/19 19:10	07/12/19 13:02	2
Silver	2.0	U	2.0	0.59	ug/L		07/11/19 19:10	07/12/19 13:02	2
Sodium	260000		200	128	ug/L		07/11/19 19:10	07/12/19 13:02	2
Thallium	0.80	U	0.80	0.16	ug/L		07/11/19 19:10	07/12/19 13:02	2
Vanadium	4.0	U	4.0	1.1	ug/L		07/11/19 19:10	07/12/19 13:02	2
Zinc	16.0	U	16.0	11.1	ug/L		07/11/19 19:10	07/12/19 13:02	2

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	18.8	ug/L		07/11/19 22:11	07/12/19 00:12	2
Antimony	2.0	U	2.0	0.40	ug/L		07/11/19 22:11	07/12/19 00:12	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/11/19 22:11	07/12/19 00:12	2
Barium	103		4.0	1.2	ug/L		07/11/19 22:11	07/12/19 00:12	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/11/19 22:11	07/12/19 00:12	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/11/19 22:11	07/12/19 00:12	2
Calcium	153000		200	98.8	ug/L		07/11/19 22:11	07/12/19 00:12	2
Chromium	4.0	U	4.0	2.3	ug/L		07/11/19 22:11	07/12/19 00:12	2
Cobalt	1.9	J	4.0	1.6	ug/L		07/11/19 22:11	07/12/19 00:12	2
Copper	4.0	U	4.0	2.0	ug/L		07/11/19 22:11	07/12/19 00:12	2
Iron	120	U	120	51.1	ug/L		07/11/19 22:11	07/12/19 00:12	2
Lead	1.2	U	1.2	0.55	ug/L		07/11/19 22:11	07/12/19 00:12	2
Magnesium	29900		200	73.7	ug/L		07/11/19 22:11	07/12/19 00:12	2
Manganese	179		8.0	2.9	ug/L		07/11/19 22:11	07/12/19 00:12	2
Nickel	2.9	J	4.0	2.4	ug/L		07/11/19 22:11	07/12/19 00:12	2
Potassium	12300		200	86.7	ug/L		07/11/19 22:11	07/12/19 00:12	2
Selenium	7.1	J	10.0	5.4	ug/L		07/11/19 22:11	07/12/19 00:12	2
Silver	2.0	U	2.0	0.59	ug/L		07/11/19 22:11	07/12/19 00:12	2
Sodium	231000		200	128	ug/L		07/11/19 22:11	07/12/19 00:12	2
Thallium	0.80	U	0.80	0.16	ug/L		07/11/19 22:11	07/12/19 00:12	2
Vanadium	4.0	U	4.0	1.1	ug/L		07/11/19 22:11	07/12/19 00:12	2
Zinc	16.0	U	16.0	11.1	ug/L		07/11/19 22:11	07/12/19 00:12	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		07/15/19 12:07	07/15/19 14:57	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		07/15/19 14:00	07/15/19 15:17	1

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/12/19 22:49	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/12/19 22:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/12/19 22:49	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 22:49	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/12/19 22:49	1
1,1-Dichloroethene	1.1		1.0	0.26	ug/L			07/12/19 22:49	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			07/12/19 22:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			07/12/19 22:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/12/19 22:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/12/19 22:49	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 22:49	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/12/19 22:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/12/19 22:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/12/19 22:49	1
1,4-Dioxane	50	U	50	28	ug/L			07/12/19 22:49	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/12/19 22:49	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/12/19 22:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/12/19 22:49	1
Acetone	12		5.0	4.4	ug/L			07/12/19 22:49	1
Benzene	1.0	U	1.0	0.20	ug/L			07/12/19 22:49	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/12/19 22:49	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/12/19 22:49	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/12/19 22:49	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/12/19 22:49	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/12/19 22:49	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/12/19 22:49	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/12/19 22:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/12/19 22:49	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/12/19 22:49	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/12/19 22:49	1
cis-1,2-Dichloroethene	64		1.0	0.22	ug/L			07/12/19 22:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/12/19 22:49	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/12/19 22:49	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/12/19 22:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			07/12/19 22:49	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/12/19 22:49	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/12/19 22:49	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/12/19 22:49	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/12/19 22:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/12/19 22:49	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/12/19 22:49	1
Methylene Chloride	0.86 J		1.0	0.32	ug/L			07/12/19 22:49	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/12/19 22:49	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/12/19 22:49	1
Styrene	1.0	U	1.0	0.42	ug/L			07/12/19 22:49	1
Tetrachloroethene	200		1.0	0.25	ug/L			07/12/19 22:49	1
Toluene	1.0	U	1.0	0.38	ug/L			07/12/19 22:49	1
trans-1,2-Dichloroethene	0.95 J		1.0	0.24	ug/L			07/12/19 22:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/12/19 22:49	1
Trichloroethene	120		1.0	0.31	ug/L			07/12/19 22:49	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/12/19 22:49	1
Vinyl chloride	14		1.0	0.17	ug/L			07/12/19 22:49	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		74 - 132		07/12/19 22:49	1
4-Bromofluorobenzene	102		77 - 124		07/12/19 22:49	1
Dibromofluoromethane (Surr)	117		72 - 131		07/12/19 22:49	1
Toluene-d8 (Surr)	107		80 - 120		07/12/19 22:49	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		07/11/19 08:33	07/12/19 01:59	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,4-Dinitrophenol	20	U	20	14	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		07/11/19 08:33	07/12/19 01:59	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		07/11/19 08:33	07/12/19 01:59	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		07/11/19 08:33	07/12/19 01:59	1
2-Chlorophenol	10	U	10	0.38	ug/L		07/11/19 08:33	07/12/19 01:59	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:59	1
2-Methylphenol	10	U	10	0.26	ug/L		07/11/19 08:33	07/12/19 01:59	1
2-Nitroaniline	10	U	10	0.47	ug/L		07/11/19 08:33	07/12/19 01:59	1
2-Nitrophenol	10	U	10	0.75	ug/L		07/11/19 08:33	07/12/19 01:59	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		07/11/19 08:33	07/12/19 01:59	1
3-Nitroaniline	10	U	10	0.96	ug/L		07/11/19 08:33	07/12/19 01:59	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Chloroaniline	10	U	10	1.9	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Methylphenol	10	U	10	0.24	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Nitroaniline	10	U	10	0.54	ug/L		07/11/19 08:33	07/12/19 01:59	1
4-Nitrophenol	20	U	20	0.69	ug/L		07/11/19 08:33	07/12/19 01:59	1
Acenaphthene	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:59	1
Acenaphthylene	10	U	10	0.82	ug/L		07/11/19 08:33	07/12/19 01:59	1
Acetophenone	10	U	10	0.79	ug/L		07/11/19 08:33	07/12/19 01:59	1
Anthracene	10	U	10	0.63	ug/L		07/11/19 08:33	07/12/19 01:59	1
Atrazine	2.0	U *	2.0	1.3	ug/L		07/11/19 08:33	07/12/19 01:59	1
Benzaldehyde	10	U *	10	0.59	ug/L		07/11/19 08:33	07/12/19 01:59	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		07/11/19 08:33	07/12/19 01:59	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		07/11/19 08:33	07/12/19 01:59	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		07/11/19 08:33	07/12/19 01:59	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		07/11/19 08:33	07/12/19 01:59	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		07/11/19 08:33	07/12/19 01:59	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		07/11/19 08:33	07/12/19 01:59	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		07/11/19 08:33	07/12/19 01:59	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		07/11/19 08:33	07/12/19 01:59	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		07/11/19 08:33	07/12/19 01:59	1
Caprolactam	10	U *	10	0.68	ug/L		07/11/19 08:33	07/12/19 01:59	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	10	U	10	0.68	ug/L		07/11/19 08:33	07/12/19 01:59	1
Chrysene	2.0	U	2.0	0.91	ug/L		07/11/19 08:33	07/12/19 01:59	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		07/11/19 08:33	07/12/19 01:59	1
Dibenzofuran	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:59	1
Diethyl phthalate	10	U	10	0.98	ug/L		07/11/19 08:33	07/12/19 01:59	1
Dimethyl phthalate	10	U	10	0.77	ug/L		07/11/19 08:33	07/12/19 01:59	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		07/11/19 08:33	07/12/19 01:59	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		07/11/19 08:33	07/12/19 01:59	1
Fluoranthene	10	U	10	0.84	ug/L		07/11/19 08:33	07/12/19 01:59	1
Fluorene	10	U	10	0.91	ug/L		07/11/19 08:33	07/12/19 01:59	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		07/11/19 08:33	07/12/19 01:59	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		07/11/19 08:33	07/12/19 01:59	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		07/11/19 08:33	07/12/19 01:59	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		07/11/19 08:33	07/12/19 01:59	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		07/11/19 08:33	07/12/19 01:59	1
Isophorone	10	U	10	0.80	ug/L		07/11/19 08:33	07/12/19 01:59	1
Naphthalene	10	U	10	1.1	ug/L		07/11/19 08:33	07/12/19 01:59	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		07/11/19 08:33	07/12/19 01:59	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		07/11/19 08:33	07/12/19 01:59	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		07/11/19 08:33	07/12/19 01:59	1
Pentachlorophenol	20	U	20	1.4	ug/L		07/11/19 08:33	07/12/19 01:59	1
Phenanthrene	10	U	10	0.58	ug/L		07/11/19 08:33	07/12/19 01:59	1
Phenol	10	U	10	0.29	ug/L		07/11/19 08:33	07/12/19 01:59	1
Pyrene	10	U	10	1.6	ug/L		07/11/19 08:33	07/12/19 01:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	106		26 - 139	07/11/19 08:33	07/12/19 01:59	1
2-Fluorobiphenyl	94		45 - 107	07/11/19 08:33	07/12/19 01:59	1
2-Fluorophenol (Surr)	53		25 - 58	07/11/19 08:33	07/12/19 01:59	1
Nitrobenzene-d5 (Surr)	98		51 - 108	07/11/19 08:33	07/12/19 01:59	1
Phenol-d5 (Surr)	37		14 - 39	07/11/19 08:33	07/12/19 01:59	1
Terphenyl-d14 (Surr)	105		40 - 148	07/11/19 08:33	07/12/19 01:59	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		07/13/19 16:45	07/14/19 15:11	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		07/13/19 16:45	07/14/19 15:11	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 15:11	1
Aldrin	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 15:11	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		07/13/19 16:45	07/14/19 15:11	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 15:11	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		07/13/19 16:45	07/14/19 15:11	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		07/13/19 16:45	07/14/19 15:11	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 15:11	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		07/13/19 16:45	07/14/19 15:11	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 15:11	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		07/13/19 16:45	07/14/19 15:11	1
Endrin	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 15:11	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		07/13/19 16:45	07/14/19 15:11	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		07/13/19 16:45	07/14/19 15:11	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		07/13/19 16:45	07/14/19 15:11	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 15:11	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		07/13/19 16:45	07/14/19 15:11	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 15:11	1
Toxaphene	0.50	U	0.50	0.11	ug/L		07/13/19 16:45	07/14/19 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		10 - 150	07/13/19 16:45	07/14/19 15:11	1
DCB Decachlorobiphenyl	49		10 - 150	07/13/19 16:45	07/14/19 15:11	1
Tetrachloro-m-xylene	60		12 - 136	07/13/19 16:45	07/14/19 15:11	1
Tetrachloro-m-xylene	56		12 - 136	07/13/19 16:45	07/14/19 15:11	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:53	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 13:53	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45		10 - 150	07/13/19 16:54	07/14/19 13:53	1
DCB Decachlorobiphenyl	48		10 - 150	07/13/19 16:54	07/14/19 13:53	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13700		40.0	18.8	ug/L		07/11/19 19:10	07/12/19 13:04	2
Antimony	0.52	J	2.0	0.40	ug/L		07/11/19 19:10	07/12/19 13:04	2
Arsenic	4.3		2.0	0.73	ug/L		07/11/19 19:10	07/12/19 13:04	2
Barium	377		4.0	1.2	ug/L		07/11/19 19:10	07/12/19 13:04	2
Beryllium	1.7		0.80	0.25	ug/L		07/11/19 19:10	07/12/19 13:04	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/11/19 19:10	07/12/19 13:04	2
Calcium	358000		1000	494	ug/L		07/11/19 19:10	07/12/19 15:37	10
Chromium	97.0		4.0	2.3	ug/L		07/11/19 19:10	07/12/19 13:04	2
Cobalt	37.4		4.0	1.6	ug/L		07/11/19 19:10	07/12/19 13:04	2
Copper	106		4.0	2.0	ug/L		07/11/19 19:10	07/12/19 13:04	2
Iron	55000		120	51.1	ug/L		07/11/19 19:10	07/12/19 13:04	2
Lead	79.8		1.2	0.55	ug/L		07/11/19 19:10	07/12/19 13:04	2
Magnesium	82100		200	73.7	ug/L		07/11/19 19:10	07/12/19 13:04	2
Manganese	2560		8.0	2.9	ug/L		07/11/19 19:10	07/12/19 13:04	2
Nickel	44.3		4.0	2.4	ug/L		07/11/19 19:10	07/12/19 13:04	2
Potassium	14500		200	86.7	ug/L		07/11/19 19:10	07/12/19 13:04	2
Selenium	10.0	U	10.0	5.4	ug/L		07/11/19 19:10	07/12/19 13:04	2
Silver	2.0	U	2.0	0.59	ug/L		07/11/19 19:10	07/12/19 13:04	2
Sodium	160000		200	128	ug/L		07/11/19 19:10	07/12/19 13:04	2

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	0.36	J	0.80	0.16	ug/L		07/11/19 19:10	07/12/19 13:04	2
Vanadium	106		4.0	1.1	ug/L		07/11/19 19:10	07/12/19 13:04	2
Zinc	204		16.0	11.1	ug/L		07/11/19 19:10	07/12/19 13:04	2

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	203		40.0	18.8	ug/L		07/11/19 22:11	07/12/19 00:17	2
Antimony	2.0	U	2.0	0.40	ug/L		07/11/19 22:11	07/12/19 00:17	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/11/19 22:11	07/12/19 00:17	2
Barium	105		4.0	1.2	ug/L		07/11/19 22:11	07/12/19 00:17	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/11/19 22:11	07/12/19 00:17	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/11/19 22:11	07/12/19 00:17	2
Calcium	408000		1000	494	ug/L		07/11/19 22:11	07/16/19 14:57	10
Chromium	4.0	U	4.0	2.3	ug/L		07/11/19 22:11	07/12/19 00:17	2
Cobalt	8.9		4.0	1.6	ug/L		07/11/19 22:11	07/12/19 00:17	2
Copper	4.0	U	4.0	2.0	ug/L		07/11/19 22:11	07/12/19 00:17	2
Iron	1790		120	51.1	ug/L		07/11/19 22:11	07/12/19 00:17	2
Lead	1.1	J	1.2	0.55	ug/L		07/11/19 22:11	07/12/19 00:17	2
Magnesium	83600		200	73.7	ug/L		07/11/19 22:11	07/12/19 00:17	2
Manganese	2110		8.0	2.9	ug/L		07/11/19 22:11	07/12/19 00:17	2
Nickel	9.0		4.0	2.4	ug/L		07/11/19 22:11	07/12/19 00:17	2
Potassium	16300		200	86.7	ug/L		07/11/19 22:11	07/12/19 00:17	2
Selenium	10.0	U	10.0	5.4	ug/L		07/11/19 22:11	07/12/19 00:17	2
Silver	2.0	U	2.0	0.59	ug/L		07/11/19 22:11	07/12/19 00:17	2
Sodium	186000		200	128	ug/L		07/11/19 22:11	07/12/19 00:17	2
Thallium	0.80	U	0.80	0.16	ug/L		07/11/19 22:11	07/12/19 00:17	2
Vanadium	1.3	J	4.0	1.1	ug/L		07/11/19 22:11	07/12/19 00:17	2
Zinc	12.5	J	16.0	11.1	ug/L		07/11/19 22:11	07/12/19 00:17	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.26		0.20	0.12	ug/L		07/15/19 12:07	07/15/19 14:58	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		07/15/19 14:00	07/15/19 15:24	1

Client Sample ID: Trip Blank_20190710

Lab Sample ID: 460-186299-3

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/12/19 08:56	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/12/19 08:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/12/19 08:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 08:56	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/12/19 08:56	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/12/19 08:56	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			07/12/19 08:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			07/12/19 08:56	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: Trip Blank_20190710

Lab Sample ID: 460-186299-3

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/12/19 08:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/12/19 08:56	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 08:56	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/12/19 08:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/12/19 08:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/12/19 08:56	1
1,4-Dioxane	50	U	50	28	ug/L			07/12/19 08:56	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/12/19 08:56	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/12/19 08:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/12/19 08:56	1
Acetone	5.0	U	5.0	4.4	ug/L			07/12/19 08:56	1
Benzene	1.0	U	1.0	0.20	ug/L			07/12/19 08:56	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/12/19 08:56	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/12/19 08:56	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/12/19 08:56	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/12/19 08:56	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/12/19 08:56	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/12/19 08:56	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/12/19 08:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/12/19 08:56	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/12/19 08:56	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/12/19 08:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			07/12/19 08:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/12/19 08:56	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/12/19 08:56	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/12/19 08:56	1
Dichlorodifluoromethane	1.0	U *	1.0	0.31	ug/L			07/12/19 08:56	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/12/19 08:56	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/12/19 08:56	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/12/19 08:56	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/12/19 08:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/12/19 08:56	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/12/19 08:56	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			07/12/19 08:56	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/12/19 08:56	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/12/19 08:56	1
Styrene	1.0	U	1.0	0.42	ug/L			07/12/19 08:56	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			07/12/19 08:56	1
Toluene	1.0	U	1.0	0.38	ug/L			07/12/19 08:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/12/19 08:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/12/19 08:56	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			07/12/19 08:56	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/12/19 08:56	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			07/12/19 08:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		74 - 132		07/12/19 08:56	1
4-Bromofluorobenzene	98		77 - 124		07/12/19 08:56	1
Dibromofluoromethane (Surr)	112		72 - 131		07/12/19 08:56	1
Toluene-d8 (Surr)	103		80 - 120		07/12/19 08:56	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Date Collected: 07/12/19 10:00

Matrix: Water

Date Received: 07/12/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/18/19 00:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/18/19 00:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/18/19 00:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/18/19 00:50	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/18/19 00:50	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/18/19 00:50	1
1,2,3-Trichlorobenzene	1.0	U *	1.0	0.36	ug/L			07/18/19 00:50	1
1,2,4-Trichlorobenzene	1.0	U *	1.0	0.37	ug/L			07/18/19 00:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/18/19 00:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/18/19 00:50	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/18/19 00:50	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/18/19 00:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/18/19 00:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/18/19 00:50	1
1,4-Dioxane	50	U *	50	28	ug/L			07/18/19 00:50	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/18/19 00:50	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/18/19 00:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/18/19 00:50	1
Acetone	5.0	U	5.0	4.4	ug/L			07/18/19 00:50	1
Benzene	1.0	U	1.0	0.20	ug/L			07/18/19 00:50	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/18/19 00:50	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/18/19 00:50	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/18/19 00:50	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/18/19 00:50	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/18/19 00:50	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/18/19 00:50	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/18/19 00:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/18/19 00:50	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/18/19 00:50	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/18/19 00:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			07/18/19 00:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/18/19 00:50	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/18/19 00:50	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/18/19 00:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			07/18/19 00:50	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/18/19 00:50	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/18/19 00:50	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/18/19 00:50	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/18/19 00:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/18/19 00:50	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/18/19 00:50	1
Methylene Chloride	0.50	J	1.0	0.32	ug/L			07/18/19 00:50	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/18/19 00:50	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/18/19 00:50	1
Styrene	1.0	U	1.0	0.42	ug/L			07/18/19 00:50	1
Tetrachloroethene	2.4		1.0	0.25	ug/L			07/18/19 00:50	1
Toluene	1.0	U	1.0	0.38	ug/L			07/18/19 00:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/18/19 00:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/18/19 00:50	1

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Date Collected: 07/12/19 10:00

Matrix: Water

Date Received: 07/12/19 18:30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	1.0	U	1.0	0.31	ug/L			07/18/19 00:50	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/18/19 00:50	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			07/18/19 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		74 - 132		07/18/19 00:50	1
4-Bromofluorobenzene	94		77 - 124		07/18/19 00:50	1
Dibromofluoromethane (Surr)	105		72 - 131		07/18/19 00:50	1
Toluene-d8 (Surr)	113		80 - 120		07/18/19 00:50	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		07/14/19 07:02	07/15/19 01:22	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,4-Dinitrophenol	20	U	20	14	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		07/14/19 07:02	07/15/19 01:22	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		07/14/19 07:02	07/15/19 01:22	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		07/14/19 07:02	07/15/19 01:22	1
2-Chlorophenol	10	U *	10	0.38	ug/L		07/14/19 07:02	07/15/19 01:22	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		07/14/19 07:02	07/15/19 01:22	1
2-Methylphenol	10	U *	10	0.26	ug/L		07/14/19 07:02	07/15/19 01:22	1
2-Nitroaniline	10	U	10	0.47	ug/L		07/14/19 07:02	07/15/19 01:22	1
2-Nitrophenol	10	U	10	0.75	ug/L		07/14/19 07:02	07/15/19 01:22	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		07/14/19 07:02	07/15/19 01:22	1
3-Nitroaniline	10	U	10	0.96	ug/L		07/14/19 07:02	07/15/19 01:22	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Chloroaniline	10	U	10	1.9	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Methylphenol	10	U *	10	0.24	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Nitroaniline	10	U	10	0.54	ug/L		07/14/19 07:02	07/15/19 01:22	1
4-Nitrophenol	20	U *	20	0.69	ug/L		07/14/19 07:02	07/15/19 01:22	1
Acenaphthene	10	U	10	1.1	ug/L		07/14/19 07:02	07/15/19 01:22	1
Acenaphthylene	10	U	10	0.82	ug/L		07/14/19 07:02	07/15/19 01:22	1
Acetophenone	10	U	10	0.79	ug/L		07/14/19 07:02	07/15/19 01:22	1
Anthracene	10	U	10	0.63	ug/L		07/14/19 07:02	07/15/19 01:22	1
Atrazine	2.0	U	2.0	1.3	ug/L		07/14/19 07:02	07/15/19 01:22	1
Benzaldehyde	10	U	10	0.59	ug/L		07/14/19 07:02	07/15/19 01:22	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		07/14/19 07:02	07/15/19 01:22	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		07/14/19 07:02	07/15/19 01:22	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		07/14/19 07:02	07/15/19 01:22	1
Benzo[g,h,i]perylene	10	U *	10	1.4	ug/L		07/14/19 07:02	07/15/19 01:22	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		07/14/19 07:02	07/15/19 01:22	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Date Collected: 07/12/19 10:00

Matrix: Water

Date Received: 07/12/19 18:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		07/14/19 07:02	07/15/19 01:22	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		07/14/19 07:02	07/15/19 01:22	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		07/14/19 07:02	07/15/19 01:22	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		07/14/19 07:02	07/15/19 01:22	1
Caprolactam	10	U	10	0.68	ug/L		07/14/19 07:02	07/15/19 01:22	1
Carbazole	10	U	10	0.68	ug/L		07/14/19 07:02	07/15/19 01:22	1
Chrysene	2.0	U	2.0	0.91	ug/L		07/14/19 07:02	07/15/19 01:22	1
Dibenz(a,h)anthracene	1.0	U *	1.0	0.72	ug/L		07/14/19 07:02	07/15/19 01:22	1
Dibenzofuran	10	U	10	1.1	ug/L		07/14/19 07:02	07/15/19 01:22	1
Diethyl phthalate	10	U	10	0.98	ug/L		07/14/19 07:02	07/15/19 01:22	1
Dimethyl phthalate	10	U	10	0.77	ug/L		07/14/19 07:02	07/15/19 01:22	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		07/14/19 07:02	07/15/19 01:22	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		07/14/19 07:02	07/15/19 01:22	1
Fluoranthene	10	U	10	0.84	ug/L		07/14/19 07:02	07/15/19 01:22	1
Fluorene	10	U	10	0.91	ug/L		07/14/19 07:02	07/15/19 01:22	1
Hexachlorobenzene	1.0	U *	1.0	0.40	ug/L		07/14/19 07:02	07/15/19 01:22	1
Hexachlorobutadiene	1.0	U *	1.0	0.78	ug/L		07/14/19 07:02	07/15/19 01:22	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		07/14/19 07:02	07/15/19 01:22	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		07/14/19 07:02	07/15/19 01:22	1
Indeno[1,2,3-cd]pyrene	2.0	U *	2.0	1.3	ug/L		07/14/19 07:02	07/15/19 01:22	1
Isophorone	10	U	10	0.80	ug/L		07/14/19 07:02	07/15/19 01:22	1
Naphthalene	10	U	10	1.1	ug/L		07/14/19 07:02	07/15/19 01:22	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		07/14/19 07:02	07/15/19 01:22	1
N-Nitrosodi-n-propylamine	1.0	U *	1.0	0.43	ug/L		07/14/19 07:02	07/15/19 01:22	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		07/14/19 07:02	07/15/19 01:22	1
Pentachlorophenol	20	U	20	1.4	ug/L		07/14/19 07:02	07/15/19 01:22	1
Phenanthrene	10	U	10	0.58	ug/L		07/14/19 07:02	07/15/19 01:22	1
Phenol	10	U *	10	0.29	ug/L		07/14/19 07:02	07/15/19 01:22	1
Pyrene	10	U	10	1.6	ug/L		07/14/19 07:02	07/15/19 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		26 - 139	07/14/19 07:02	07/15/19 01:22	1
2-Fluorobiphenyl	88		45 - 107	07/14/19 07:02	07/15/19 01:22	1
2-Fluorophenol (Surr)	40		25 - 58	07/14/19 07:02	07/15/19 01:22	1
Nitrobenzene-d5 (Surr)	89		51 - 108	07/14/19 07:02	07/15/19 01:22	1
Phenol-d5 (Surr)	24		14 - 39	07/14/19 07:02	07/15/19 01:22	1
Terphenyl-d14 (Surr)	110		40 - 148	07/14/19 07:02	07/15/19 01:22	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		07/14/19 16:25	07/15/19 11:07	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		07/14/19 16:25	07/15/19 11:07	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 11:07	1
Aldrin	0.020	U	0.020	0.0030	ug/L		07/14/19 16:25	07/15/19 11:07	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		07/14/19 16:25	07/15/19 11:07	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 11:07	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		07/14/19 16:25	07/15/19 11:07	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		07/14/19 16:25	07/15/19 11:07	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		07/14/19 16:25	07/15/19 11:07	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		07/14/19 16:25	07/15/19 11:07	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Date Collected: 07/12/19 10:00

Matrix: Water

Date Received: 07/12/19 18:30

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan II	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 11:07	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		07/14/19 16:25	07/15/19 11:07	1
Endrin	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 11:07	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		07/14/19 16:25	07/15/19 11:07	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		07/14/19 16:25	07/15/19 11:07	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		07/14/19 16:25	07/15/19 11:07	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		07/14/19 16:25	07/15/19 11:07	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		07/14/19 16:25	07/15/19 11:07	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 11:07	1
Toxaphene	0.50	U	0.50	0.11	ug/L		07/14/19 16:25	07/15/19 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	89		10 - 150	07/14/19 16:25	07/15/19 11:07	1
DCB Decachlorobiphenyl	98		10 - 150	07/14/19 16:25	07/15/19 11:07	1
Tetrachloro-m-xylene	97		12 - 136	07/14/19 16:25	07/15/19 11:07	1
Tetrachloro-m-xylene	93		12 - 136	07/14/19 16:25	07/15/19 11:07	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 10:37	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 10:37	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 10:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	75		10 - 150	07/14/19 16:29	07/15/19 10:37	1
DCB Decachlorobiphenyl	84		10 - 150	07/14/19 16:29	07/15/19 10:37	1

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	614		40.0	18.8	ug/L		07/15/19 08:50	07/15/19 19:56	2
Antimony	2.0	U	2.0	0.40	ug/L		07/15/19 08:50	07/15/19 19:56	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/15/19 08:50	07/15/19 19:56	2
Barium	138		4.0	1.2	ug/L		07/15/19 08:50	07/15/19 19:56	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/15/19 08:50	07/15/19 19:56	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/15/19 08:50	07/15/19 19:56	2
Calcium	180000		200	98.8	ug/L		07/15/19 08:50	07/15/19 19:56	2
Chromium	3.4	J	4.0	2.3	ug/L		07/15/19 08:50	07/15/19 19:56	2
Cobalt	3.4	J	4.0	1.6	ug/L		07/15/19 08:50	07/15/19 19:56	2
Copper	3.3	J	4.0	2.0	ug/L		07/15/19 08:50	07/15/19 19:56	2
Iron	1370		120	51.1	ug/L		07/15/19 08:50	07/15/19 19:56	2
Lead	1.5		1.2	0.55	ug/L		07/15/19 08:50	07/15/19 19:56	2
Magnesium	41000		200	73.7	ug/L		07/15/19 08:50	07/15/19 19:56	2
Manganese	183		8.0	2.9	ug/L		07/15/19 08:50	07/15/19 19:56	2

Eurofins TestAmerica, Edison

Client Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Date Collected: 07/12/19 10:00

Matrix: Water

Date Received: 07/12/19 18:30

Method: 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	3.4	J	4.0	2.4	ug/L		07/15/19 08:50	07/15/19 19:56	2
Potassium	9240		200	86.7	ug/L		07/15/19 08:50	07/15/19 19:56	2
Selenium	10.0	U	10.0	5.4	ug/L		07/15/19 08:50	07/15/19 19:56	2
Silver	2.0	U	2.0	0.59	ug/L		07/15/19 08:50	07/15/19 19:56	2
Sodium	350000		200	128	ug/L		07/15/19 08:50	07/15/19 19:56	2
Thallium	0.80	U	0.80	0.16	ug/L		07/15/19 08:50	07/15/19 19:56	2
Vanadium	2.8	J	4.0	1.1	ug/L		07/15/19 08:50	07/15/19 19:56	2
Zinc	16.0	U	16.0	11.1	ug/L		07/15/19 08:50	07/15/19 19:56	2

Method: 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	18.8	ug/L		07/16/19 17:08	07/16/19 18:15	2
Antimony	2.0	U	2.0	0.40	ug/L		07/16/19 17:08	07/16/19 18:15	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/16/19 17:08	07/16/19 23:18	2
Barium	162		4.0	1.2	ug/L		07/16/19 17:08	07/16/19 18:15	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/16/19 17:08	07/16/19 18:15	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/16/19 17:08	07/16/19 18:15	2
Calcium	213000		200	98.8	ug/L		07/16/19 17:08	07/16/19 18:15	2
Chromium	4.0	U	4.0	2.3	ug/L		07/16/19 17:08	07/16/19 18:15	2
Cobalt	3.0	J	4.0	1.6	ug/L		07/16/19 17:08	07/16/19 18:15	2
Copper	4.0	U	4.0	2.0	ug/L		07/16/19 17:08	07/16/19 18:15	2
Iron	120	U	120	51.1	ug/L		07/16/19 17:08	07/16/19 18:15	2
Lead	1.2	U	1.2	0.55	ug/L		07/16/19 17:08	07/16/19 18:15	2
Magnesium	47300		200	73.7	ug/L		07/16/19 17:08	07/16/19 18:15	2
Manganese	184		8.0	2.9	ug/L		07/16/19 17:08	07/16/19 18:15	2
Nickel	2.7	J	4.0	2.4	ug/L		07/16/19 17:08	07/16/19 18:15	2
Potassium	10700		200	86.7	ug/L		07/16/19 17:08	07/16/19 18:15	2
Selenium	5.7	J	10.0	5.4	ug/L		07/16/19 17:08	07/16/19 18:15	2
Silver	2.0	U	2.0	0.59	ug/L		07/16/19 17:08	07/16/19 18:15	2
Sodium	396000		200	128	ug/L		07/16/19 17:08	07/16/19 18:15	2
Thallium	0.80	U	0.80	0.16	ug/L		07/16/19 17:08	07/16/19 18:15	2
Vanadium	1.1	J	4.0	1.1	ug/L		07/16/19 17:08	07/16/19 18:15	2
Zinc	16.0	U	16.0	11.1	ug/L		07/16/19 17:08	07/16/19 18:15	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		07/17/19 11:55	07/17/19 13:48	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L		07/17/19 12:05	07/17/19 14:27	1

Surrogate Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (74-132)	BFB (77-124)	DBFM (72-131)	TOL (80-120)
460-186299-1	TW-05_20190710	107	98	110	101
460-186299-1 MS	TW-05_20190710	112	102	116	101
460-186299-1 MSD	TW-05_20190710	106	101	114	100
460-186299-2	TW-02_20190710	112	102	117	107
460-186299-3	Trip Blank_20190710	111	98	112	103
460-186563-1	TW-03_20190712	120	94	105	113
LCS 460-624021/3	Lab Control Sample	105	100	115	100
LCS 460-624221/3	Lab Control Sample	112	101	119	106
LCS 460-625284/4	Lab Control Sample	115	93	103	111
LCSD 460-624221/4	Lab Control Sample Dup	111	101	117	103
LCSD 460-625284/5	Lab Control Sample Dup	114	93	102	110
MB 460-624021/8	Method Blank	109	98	110	106
MB 460-624221/8	Method Blank	120	109	126	115
MB 460-625284/9	Method Blank	117	94	104	112

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (26-139)	FBP (45-107)	2FP (25-58)	NBZ (51-108)	PHL (14-39)	TPHL (40-148)
460-186201-F-4-A MSD	Matrix Spike Duplicate	0 *	0 *	0 *	0 *	0 *	0 *
460-186201-H-4-A MS	Matrix Spike	0 *	0 *	0 *	0 *	0 *	0 *
460-186299-1	TW-05_20190710	104	93	49	96	33	109
460-186299-2	TW-02_20190710	106	94	53	98	37	105
460-186494-A-7-A MSD	Matrix Spike Duplicate	122	98	45	100	28	108
460-186494-C-7-A MS	Matrix Spike	128	104	48	102	26	101
460-186563-1	TW-03_20190712	101	88	40	89	24	110
LCS 460-623788/2-A	Lab Control Sample	91	80	41	85	29	104
LCS 460-623788/4-A	Lab Control Sample	98	96	50	98	36	124
LCS 460-624444/2-A	Lab Control Sample	132	100	61 *	101	39	110
LCS 460-624444/4-A	Lab Control Sample	105	87	45	94	30	108
LCSD 460-623788/3-A	Lab Control Sample Dup	91	80	41	84	29	105
LCSD 460-623788/5-A	Lab Control Sample Dup	49	83	24 *	92	21	117
LCSD 460-624444/3-A	Lab Control Sample Dup	107	92	35	87	21	98
LCSD 460-624444/5-A	Lab Control Sample Dup	102	94	56	98	39	119
MB 460-623788/1-A	Method Blank	85	86	42	90	28	109
MB 460-624444/1-A	Method Blank	113	107	45	104	27	127

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

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Surrogate Summary

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204
 TPHL = Terphenyl-d14 (Surr)

Job ID: 460-186299-1

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1	DCBP2	TCX1	TCX2
		(10-150)	(10-150)	(12-136)	(12-136)
460-186299-1	TW-05_20190710	98	86	76	72
460-186299-2	TW-02_20190710	55	49	60	56
460-186563-1	TW-03_20190712	89	98	97	93
LCS 460-624379/2-A	Lab Control Sample	49	44	61	71
LCS 460-624485/2-A	Lab Control Sample	87	101	83	92
LCSD 460-624379/3-A	Lab Control Sample Dup	49	43	58	68
LCSD 460-624485/3-A	Lab Control Sample Dup	88	96	82	80
MB 460-624379/1-A	Method Blank	59	51	56	53
MB 460-624485/1-A	Method Blank	98	100	89	87

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
 TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1	DCBP2
		(10-150)	(10-150)
460-186299-1	TW-05_20190710	80	85
460-186299-2	TW-02_20190710	45	48
460-186563-1	TW-03_20190712	75	84
LCS 460-624380/2-A	Lab Control Sample	113	114
LCS 460-624486/2-A	Lab Control Sample	99	112
LCSD 460-624380/3-A	Lab Control Sample Dup	111	117
LCSD 460-624486/3-A	Lab Control Sample Dup	109	83
MB 460-624380/1-A	Method Blank	107	116
MB 460-624486/1-A	Method Blank	111	116

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-624021/8
Matrix: Water
Analysis Batch: 624021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/12/19 08:01	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/12/19 08:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/12/19 08:01	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 08:01	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/12/19 08:01	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/12/19 08:01	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			07/12/19 08:01	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			07/12/19 08:01	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/12/19 08:01	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/12/19 08:01	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 08:01	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/12/19 08:01	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/12/19 08:01	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/12/19 08:01	1
1,4-Dioxane	50	U	50	28	ug/L			07/12/19 08:01	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/12/19 08:01	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/12/19 08:01	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/12/19 08:01	1
Acetone	5.0	U	5.0	4.4	ug/L			07/12/19 08:01	1
Benzene	1.0	U	1.0	0.20	ug/L			07/12/19 08:01	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/12/19 08:01	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/12/19 08:01	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/12/19 08:01	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/12/19 08:01	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/12/19 08:01	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/12/19 08:01	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/12/19 08:01	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/12/19 08:01	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/12/19 08:01	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/12/19 08:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			07/12/19 08:01	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/12/19 08:01	1
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/12/19 08:01	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/12/19 08:01	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			07/12/19 08:01	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/12/19 08:01	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/12/19 08:01	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/12/19 08:01	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/12/19 08:01	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/12/19 08:01	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/12/19 08:01	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			07/12/19 08:01	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/12/19 08:01	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/12/19 08:01	1
Styrene	1.0	U	1.0	0.42	ug/L			07/12/19 08:01	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			07/12/19 08:01	1
Toluene	1.0	U	1.0	0.38	ug/L			07/12/19 08:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/12/19 08:01	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-624021/8
Matrix: Water
Analysis Batch: 624021

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/12/19 08:01	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			07/12/19 08:01	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/12/19 08:01	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			07/12/19 08:01	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		74 - 132		07/12/19 08:01	1
4-Bromofluorobenzene	98		77 - 124		07/12/19 08:01	1
Dibromofluoromethane (Surr)	110		72 - 131		07/12/19 08:01	1
Toluene-d8 (Surr)	106		80 - 120		07/12/19 08:01	1

Lab Sample ID: LCS 460-624021/3
Matrix: Water
Analysis Batch: 624021

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
1,1,1-Trichloroethane	20.0	23.5		ug/L		118	75 - 125
1,1,1,2-Tetrachloroethane	20.0	18.4		ug/L		92	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.8		ug/L		119	59 - 150
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	78 - 120
1,1-Dichloroethane	20.0	22.9		ug/L		115	77 - 123
1,1-Dichloroethene	20.0	23.9		ug/L		119	74 - 123
1,2,3-Trichlorobenzene	20.0	22.3		ug/L		112	78 - 131
1,2,4-Trichlorobenzene	20.0	20.5		ug/L		102	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.4		ug/L		87	55 - 134
1,2-Dichlorobenzene	20.0	20.1		ug/L		100	80 - 120
1,2-Dichloroethane	20.0	21.8		ug/L		109	76 - 121
1,2-Dichloropropane	20.0	22.4		ug/L		112	77 - 123
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 120
1,4-Dioxane	400	351		ug/L		88	10 - 150
2-Butanone (MEK)	100	118		ug/L		118	64 - 120
2-Hexanone	100	108		ug/L		108	71 - 125
4-Methyl-2-pentanone (MIBK)	100	105		ug/L		105	78 - 124
Acetone	100	95.3		ug/L		95	39 - 150
Benzene	20.0	20.6		ug/L		103	77 - 121
Bromoform	20.0	15.9		ug/L		79	53 - 120
Bromomethane	20.0	24.0		ug/L		120	10 - 150
Carbon disulfide	20.0	22.9		ug/L		115	69 - 133
Carbon tetrachloride	20.0	21.7		ug/L		109	70 - 132
Chlorobenzene	20.0	20.4		ug/L		102	80 - 120
Chlorobromomethane	20.0	22.8		ug/L		114	77 - 127
Chlorodibromomethane	20.0	17.3		ug/L		87	73 - 120
Chloroethane	20.0	24.0		ug/L		120	52 - 150
Chloroform	20.0	23.4		ug/L		117	80 - 120
Chloromethane	20.0	24.5		ug/L		122	56 - 131
cis-1,2-Dichloroethene	20.0	24.0		ug/L		120	80 - 120
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	77 - 120

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-624021/3

Matrix: Water

Analysis Batch: 624021

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyclohexane	20.0	23.4		ug/L		117	56 - 150
Dichlorobromomethane	20.0	21.4		ug/L		107	76 - 120
Dichlorodifluoromethane	20.0	27.2	*	ug/L		136	50 - 131
Ethylbenzene	20.0	20.5		ug/L		103	80 - 120
Ethylene Dibromide	20.0	18.9		ug/L		95	80 - 120
Isopropylbenzene	20.0	20.5		ug/L		103	80 - 123
Methyl acetate	40.0	46.8		ug/L		117	66 - 144
Methyl tert-butyl ether	20.0	23.3		ug/L		117	79 - 122
Methylcyclohexane	20.0	23.6		ug/L		118	61 - 145
Methylene Chloride	20.0	23.3		ug/L		117	77 - 123
m-Xylene & p-Xylene	20.0	20.3		ug/L		101	80 - 120
o-Xylene	20.0	20.3		ug/L		102	80 - 120
Styrene	20.0	20.6		ug/L		103	80 - 120
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	23.6		ug/L		118	79 - 120
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	76 - 120
Trichloroethene	20.0	23.3		ug/L		116	77 - 120
Trichlorofluoromethane	20.0	28.0		ug/L		140	71 - 143
Vinyl chloride	20.0	24.3		ug/L		122	62 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		74 - 132
4-Bromofluorobenzene	100		77 - 124
Dibromofluoromethane (Surr)	115		72 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 460-186299-1 MS

Matrix: Water

Analysis Batch: 624021

Client Sample ID: TW-05_20190710

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	1.0	U	200	211		ug/L		105	75 - 125
1,1,2,2-Tetrachloroethane	1.0	U	200	167		ug/L		84	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	200	215		ug/L		108	59 - 150
1,1,2-Trichloroethane	1.0	U	200	173		ug/L		86	78 - 120
1,1-Dichloroethane	1.0	U	200	209		ug/L		105	77 - 123
1,1-Dichloroethene	1.0	U	200	215		ug/L		108	74 - 123
1,2,3-Trichlorobenzene	1.0	U	200	167		ug/L		83	78 - 131
1,2,4-Trichlorobenzene	1.0	U	200	172		ug/L		86	80 - 124
1,2-Dibromo-3-Chloropropane	1.0	U	200	146		ug/L		73	55 - 134
1,2-Dichlorobenzene	1.0	U	200	175		ug/L		87	80 - 120
1,2-Dichloroethane	1.0	U	200	210		ug/L		105	76 - 121
1,2-Dichloropropane	1.0	U	200	207		ug/L		104	77 - 123
1,3-Dichlorobenzene	1.0	U	200	179		ug/L		90	80 - 120
1,4-Dichlorobenzene	1.0	U	200	174		ug/L		87	80 - 120
1,4-Dioxane	5.0	U	4000	3180		ug/L		80	10 - 150
2-Butanone (MEK)	5.0	U	1000	1070		ug/L		107	64 - 120

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-186299-1 MS

Client Sample ID: TW-05_20190710

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 624021

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Added	Result				
2-Hexanone	5.0	U	1000	936		ug/L		94	71 - 125
4-Methyl-2-pentanone (MIBK)	5.0	U	1000	908		ug/L		91	78 - 124
Acetone	5.0	U	1000	819		ug/L		82	39 - 150
Benzene	1.0	U	200	190		ug/L		95	77 - 121
Bromoform	1.0	U	200	143		ug/L		72	53 - 120
Bromomethane	1.0	U	200	214		ug/L		107	10 - 150
Carbon disulfide	1.0	U	200	208		ug/L		104	69 - 133
Carbon tetrachloride	1.0	U	200	195		ug/L		97	70 - 132
Chlorobenzene	1.0	U	200	187		ug/L		93	80 - 120
Chlorobromomethane	1.0	U	200	203		ug/L		101	77 - 127
Chlorodibromomethane	1.0	U	200	160		ug/L		80	73 - 120
Chloroethane	1.0	U	200	222		ug/L		111	52 - 150
Chloroform	1.0	U	200	206		ug/L		103	80 - 120
Chloromethane	1.0	U	200	208		ug/L		104	56 - 131
cis-1,2-Dichloroethene	1.4		200	210		ug/L		104	80 - 120
cis-1,3-Dichloropropene	1.0	U	200	176		ug/L		88	77 - 120
Cyclohexane	1.0	U	200	207		ug/L		104	56 - 150
Dichlorobromomethane	1.0	U	200	196		ug/L		98	76 - 120
Dichlorodifluoromethane	1.0	U *	200	216		ug/L		108	50 - 131
Ethylbenzene	1.0	U	200	182		ug/L		91	80 - 120
Ethylene Dibromide	1.0	U	200	172		ug/L		86	80 - 120
Isopropylbenzene	1.0	U	200	183		ug/L		91	80 - 123
Methyl acetate	5.0	U	400	428		ug/L		107	66 - 144
Methyl tert-butyl ether	1.0	U	200	213		ug/L		107	79 - 122
Methylcyclohexane	1.0	U	200	207		ug/L		104	61 - 145
Methylene Chloride	0.81	J	200	212		ug/L		105	77 - 123
m-Xylene & p-Xylene	1.0	U	200	184		ug/L		92	80 - 120
o-Xylene	1.0	U	200	183		ug/L		91	80 - 120
Styrene	1.0	U	200	180		ug/L		90	80 - 120
Tetrachloroethene	57		200	221		ug/L		82	78 - 122
Toluene	1.0	U	200	182		ug/L		91	80 - 120
trans-1,2-Dichloroethene	1.0	U	200	211		ug/L		106	79 - 120
trans-1,3-Dichloropropene	1.0	U	200	165		ug/L		82	76 - 120
Trichloroethene	0.54	J	200	215		ug/L		107	77 - 120
Trichlorofluoromethane	1.0	U	200	221		ug/L		111	71 - 143
Vinyl chloride	1.0	U	200	222		ug/L		111	62 - 138
	MS MS								
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	112		74 - 132						
4-Bromofluorobenzene	102		77 - 124						
Dibromofluoromethane (Surr)	116		72 - 131						
Toluene-d8 (Surr)	101		80 - 120						

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-186299-1 MSD

Matrix: Water

Analysis Batch: 624021

Client Sample ID: TW-05_20190710

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	1.0	U	200	236		ug/L		118	75 - 125	11	30
1,1,2,2-Tetrachloroethane	1.0	U	200	196		ug/L		98	74 - 120	16	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	200	245		ug/L		123	59 - 150	13	30
1,1,2-Trichloroethane	1.0	U	200	190		ug/L		95	78 - 120	9	30
1,1-Dichloroethane	1.0	U	200	238		ug/L		119	77 - 123	13	30
1,1-Dichloroethene	1.0	U	200	241		ug/L		120	74 - 123	11	30
1,2,3-Trichlorobenzene	1.0	U	200	206		ug/L		103	78 - 131	21	30
1,2,4-Trichlorobenzene	1.0	U	200	206		ug/L		103	80 - 124	18	30
1,2-Dibromo-3-Chloropropane	1.0	U	200	179		ug/L		90	55 - 134	21	30
1,2-Dichlorobenzene	1.0	U	200	198		ug/L		99	80 - 120	13	30
1,2-Dichloroethane	1.0	U	200	236		ug/L		118	76 - 121	12	30
1,2-Dichloropropane	1.0	U	200	233		ug/L		116	77 - 123	12	30
1,3-Dichlorobenzene	1.0	U	200	204		ug/L		102	80 - 120	13	30
1,4-Dichlorobenzene	1.0	U	200	200		ug/L		100	80 - 120	14	30
1,4-Dioxane	50	U	4000	4360	*	ug/L		109	10 - 150	31	30
2-Butanone (MEK)	5.0	U	1000	1210	*	ug/L		121	64 - 120	13	30
2-Hexanone	5.0	U	1000	1050		ug/L		105	71 - 125	12	30
4-Methyl-2-pentanone (MIBK)	5.0	U	1000	1050		ug/L		105	78 - 124	14	30
Acetone	5.0	U	1000	979		ug/L		98	39 - 150	18	30
Benzene	1.0	U	200	210		ug/L		105	77 - 121	10	30
Bromoform	1.0	U	200	164		ug/L		82	53 - 120	14	30
Bromomethane	1.0	U	200	257		ug/L		129	10 - 150	18	30
Carbon disulfide	1.0	U	200	229		ug/L		115	69 - 133	10	30
Carbon tetrachloride	1.0	U	200	224		ug/L		112	70 - 132	14	30
Chlorobenzene	1.0	U	200	209		ug/L		104	80 - 120	11	30
Chlorobromomethane	1.0	U	200	231		ug/L		116	77 - 127	13	30
Chlorodibromomethane	1.0	U	200	182		ug/L		91	73 - 120	13	30
Chloroethane	1.0	U	200	261		ug/L		130	52 - 150	16	30
Chloroform	1.0	U	200	240		ug/L		120	80 - 120	15	30
Chloromethane	1.0	U	200	250		ug/L		125	56 - 131	18	30
cis-1,2-Dichloroethene	1.4		200	244	*	ug/L		121	80 - 120	15	30
cis-1,3-Dichloropropene	1.0	U	200	195		ug/L		97	77 - 120	10	30
Cyclohexane	1.0	U	200	233		ug/L		116	56 - 150	12	30
Dichlorobromomethane	1.0	U	200	228		ug/L		114	76 - 120	15	30
Dichlorodifluoromethane	1.0	U *	200	260		ug/L		130	50 - 131	19	30
Ethylbenzene	1.0	U	200	208		ug/L		104	80 - 120	14	30
Ethylene Dibromide	1.0	U	200	195		ug/L		98	80 - 120	12	30
Isopropylbenzene	1.0	U	200	205		ug/L		102	80 - 123	11	30
Methyl acetate	5.0	U	400	474		ug/L		119	66 - 144	10	30
Methyl tert-butyl ether	1.0	U	200	236		ug/L		118	79 - 122	10	30
Methylcyclohexane	1.0	U	200	232		ug/L		116	61 - 145	11	30
Methylene Chloride	0.81	J	200	239		ug/L		119	77 - 123	12	30
m-Xylene & p-Xylene	1.0	U	200	209		ug/L		105	80 - 120	13	30
o-Xylene	1.0	U	200	208		ug/L		104	80 - 120	13	30
Styrene	1.0	U	200	210		ug/L		105	80 - 120	15	30
Tetrachloroethene	57		200	249		ug/L		96	78 - 122	12	30
Toluene	1.0	U	200	207		ug/L		104	80 - 120	13	30
trans-1,2-Dichloroethene	1.0	U	200	241		ug/L		120	79 - 120	13	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-186299-1 MSD

Client Sample ID: TW-05_20190710

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 624021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	1.0	U	200	185		ug/L		93	76 - 120	12	30
Trichloroethene	0.54	J	200	244	*	ug/L		122	77 - 120	13	30
Trichlorofluoromethane	1.0	U	200	256		ug/L		128	71 - 143	15	30
Vinyl chloride	1.0	U	200	260		ug/L		130	62 - 138	16	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		74 - 132
4-Bromofluorobenzene	101		77 - 124
Dibromofluoromethane (Surr)	114		72 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 460-624221/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 624221

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/12/19 21:15	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/12/19 21:15	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/12/19 21:15	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 21:15	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/12/19 21:15	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/12/19 21:15	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			07/12/19 21:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			07/12/19 21:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/12/19 21:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/12/19 21:15	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/12/19 21:15	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/12/19 21:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/12/19 21:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/12/19 21:15	1
1,4-Dioxane	50	U	50	28	ug/L			07/12/19 21:15	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/12/19 21:15	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/12/19 21:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/12/19 21:15	1
Acetone	5.0	U	5.0	4.4	ug/L			07/12/19 21:15	1
Benzene	1.0	U	1.0	0.20	ug/L			07/12/19 21:15	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/12/19 21:15	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/12/19 21:15	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/12/19 21:15	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/12/19 21:15	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/12/19 21:15	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/12/19 21:15	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/12/19 21:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/12/19 21:15	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/12/19 21:15	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/12/19 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			07/12/19 21:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/12/19 21:15	1

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-624221/8
Matrix: Water
Analysis Batch: 624221

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/12/19 21:15	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/12/19 21:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			07/12/19 21:15	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/12/19 21:15	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/12/19 21:15	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/12/19 21:15	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/12/19 21:15	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/12/19 21:15	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/12/19 21:15	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			07/12/19 21:15	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/12/19 21:15	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/12/19 21:15	1
Styrene	1.0	U	1.0	0.42	ug/L			07/12/19 21:15	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			07/12/19 21:15	1
Toluene	1.0	U	1.0	0.38	ug/L			07/12/19 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/12/19 21:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/12/19 21:15	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			07/12/19 21:15	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/12/19 21:15	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			07/12/19 21:15	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	120		74 - 132		07/12/19 21:15	1
4-Bromofluorobenzene	109		77 - 124		07/12/19 21:15	1
Dibromofluoromethane (Surr)	126		72 - 131		07/12/19 21:15	1
Toluene-d8 (Surr)	115		80 - 120		07/12/19 21:15	1

Lab Sample ID: LCS 460-624221/3
Matrix: Water
Analysis Batch: 624221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	20.0	18.3		ug/L		92	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.3		ug/L		121	59 - 150
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	78 - 120
1,1-Dichloroethane	20.0	23.0		ug/L		115	77 - 123
1,1-Dichloroethene	20.0	24.3		ug/L		122	74 - 123
1,2,3-Trichlorobenzene	20.0	21.8		ug/L		109	78 - 131
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.0		ug/L		80	55 - 134
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,2-Dichloroethane	20.0	22.4		ug/L		112	76 - 121
1,2-Dichloropropane	20.0	22.3		ug/L		112	77 - 123
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,4-Dichlorobenzene	20.0	18.9		ug/L		94	80 - 120
1,4-Dioxane	400	349		ug/L		87	10 - 150
2-Butanone (MEK)	100	113		ug/L		113	64 - 120

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-624221/3
Matrix: Water
Analysis Batch: 624221

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	100	97.8		ug/L		98	71 - 125
4-Methyl-2-pentanone (MIBK)	100	101		ug/L		101	78 - 124
Acetone	100	92.0		ug/L		92	39 - 150
Benzene	20.0	21.8		ug/L		109	77 - 121
Bromoform	20.0	15.8		ug/L		79	53 - 120
Bromomethane	20.0	24.2		ug/L		121	10 - 150
Carbon disulfide	20.0	23.2		ug/L		116	69 - 133
Carbon tetrachloride	20.0	22.1		ug/L		110	70 - 132
Chlorobenzene	20.0	20.4		ug/L		102	80 - 120
Chlorobromomethane	20.0	21.8		ug/L		109	77 - 127
Chlorodibromomethane	20.0	17.6		ug/L		88	73 - 120
Chloroethane	20.0	24.6		ug/L		123	52 - 150
Chloroform	20.0	23.4		ug/L		117	80 - 120
Chloromethane	20.0	22.7		ug/L		114	56 - 131
cis-1,2-Dichloroethene	20.0	23.6		ug/L		118	80 - 120
cis-1,3-Dichloropropene	20.0	19.7		ug/L		99	77 - 120
Cyclohexane	20.0	23.7		ug/L		119	56 - 150
Dichlorobromomethane	20.0	21.7		ug/L		109	76 - 120
Dichlorodifluoromethane	20.0	24.8		ug/L		124	50 - 131
Ethylbenzene	20.0	20.2		ug/L		101	80 - 120
Ethylene Dibromide	20.0	19.1		ug/L		95	80 - 120
Isopropylbenzene	20.0	21.1		ug/L		106	80 - 123
Methyl acetate	40.0	47.5		ug/L		119	66 - 144
Methyl tert-butyl ether	20.0	23.3		ug/L		117	79 - 122
Methylcyclohexane	20.0	23.7		ug/L		118	61 - 145
Methylene Chloride	20.0	23.4		ug/L		117	77 - 123
m-Xylene & p-Xylene	20.0	20.4		ug/L		102	80 - 120
o-Xylene	20.0	20.8		ug/L		104	80 - 120
Styrene	20.0	19.7		ug/L		99	80 - 120
Tetrachloroethene	20.0	21.0		ug/L		105	78 - 122
Toluene	20.0	20.3		ug/L		101	80 - 120
trans-1,2-Dichloroethene	20.0	23.5		ug/L		118	79 - 120
trans-1,3-Dichloropropene	20.0	18.6		ug/L		93	76 - 120
Trichloroethene	20.0	23.9		ug/L		119	77 - 120
Trichlorofluoromethane	20.0	27.8		ug/L		139	71 - 143
Vinyl chloride	20.0	24.6		ug/L		123	62 - 138

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	112		74 - 132
4-Bromofluorobenzene	101		77 - 124
Dibromofluoromethane (Surr)	119		72 - 131
Toluene-d8 (Surr)	106		80 - 120

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-624221/4
Matrix: Water
Analysis Batch: 624221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.9		ug/L		115	75 - 125	1	30
1,1,1,2-Tetrachloroethane	20.0	18.3		ug/L		92	74 - 120	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.4		ug/L		117	59 - 150	4	30
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	78 - 120	1	30
1,1-Dichloroethane	20.0	22.4		ug/L		112	77 - 123	3	30
1,1-Dichloroethene	20.0	23.2		ug/L		116	74 - 123	5	30
1,2,3-Trichlorobenzene	20.0	22.6		ug/L		113	78 - 131	4	30
1,2,4-Trichlorobenzene	20.0	20.4		ug/L		102	80 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	15.7		ug/L		78	55 - 134	2	30
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120	0	30
1,2-Dichloroethane	20.0	21.6		ug/L		108	76 - 121	3	30
1,2-Dichloropropane	20.0	20.7		ug/L		103	77 - 123	8	30
1,3-Dichlorobenzene	20.0	18.9		ug/L		95	80 - 120	2	30
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	80 - 120	1	30
1,4-Dioxane	400	346		ug/L		87	10 - 150	1	30
2-Butanone (MEK)	100	110		ug/L		110	64 - 120	2	30
2-Hexanone	100	97.3		ug/L		97	71 - 125	0	30
4-Methyl-2-pentanone (MIBK)	100	99.0		ug/L		99	78 - 124	2	30
Acetone	100	93.2		ug/L		93	39 - 150	1	30
Benzene	20.0	21.2		ug/L		106	77 - 121	3	30
Bromoform	20.0	15.5		ug/L		78	53 - 120	2	30
Bromomethane	20.0	23.0		ug/L		115	10 - 150	5	30
Carbon disulfide	20.0	22.0		ug/L		110	69 - 133	5	30
Carbon tetrachloride	20.0	21.4		ug/L		107	70 - 132	3	30
Chlorobenzene	20.0	19.3		ug/L		96	80 - 120	5	30
Chlorobromomethane	20.0	22.0		ug/L		110	77 - 127	1	30
Chlorodibromomethane	20.0	17.1		ug/L		85	73 - 120	3	30
Chloroethane	20.0	23.7		ug/L		119	52 - 150	4	30
Chloroform	20.0	22.4		ug/L		112	80 - 120	4	30
Chloromethane	20.0	21.9		ug/L		110	56 - 131	4	30
cis-1,2-Dichloroethene	20.0	22.8		ug/L		114	80 - 120	4	30
cis-1,3-Dichloropropene	20.0	18.9		ug/L		95	77 - 120	4	30
Cyclohexane	20.0	22.1		ug/L		111	56 - 150	7	30
Dichlorobromomethane	20.0	21.1		ug/L		106	76 - 120	3	30
Dichlorodifluoromethane	20.0	23.9		ug/L		119	50 - 131	4	30
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120	6	30
Ethylene Dibromide	20.0	18.3		ug/L		92	80 - 120	4	30
Isopropylbenzene	20.0	20.4		ug/L		102	80 - 123	4	30
Methyl acetate	40.0	46.3		ug/L		116	66 - 144	2	30
Methyl tert-butyl ether	20.0	23.3		ug/L		117	79 - 122	0	30
Methylcyclohexane	20.0	21.5		ug/L		107	61 - 145	10	30
Methylene Chloride	20.0	23.5		ug/L		118	77 - 123	1	30
m-Xylene & p-Xylene	20.0	19.6		ug/L		98	80 - 120	4	30
o-Xylene	20.0	19.9		ug/L		100	80 - 120	4	30
Styrene	20.0	19.5		ug/L		98	80 - 120	1	30
Tetrachloroethene	20.0	19.8		ug/L		99	78 - 122	6	30
Toluene	20.0	19.1		ug/L		96	80 - 120	6	30
trans-1,2-Dichloroethene	20.0	22.8		ug/L		114	79 - 120	3	30

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-624221/4
Matrix: Water
Analysis Batch: 624221

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	20.0	17.3		ug/L		87	76 - 120	7	30
Trichloroethene	20.0	22.8		ug/L		114	77 - 120	4	30
Trichlorofluoromethane	20.0	24.2		ug/L		121	71 - 143	13	30
Vinyl chloride	20.0	23.0		ug/L		115	62 - 138	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
<i>1,2-Dichloroethane-d4 (Surr)</i>	111		74 - 132
<i>4-Bromofluorobenzene</i>	101		77 - 124
<i>Dibromofluoromethane (Surr)</i>	117		72 - 131
<i>Toluene-d8 (Surr)</i>	103		80 - 120

Lab Sample ID: MB 460-625284/9
Matrix: Water
Analysis Batch: 625284

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.24	ug/L			07/17/19 19:19	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.37	ug/L			07/17/19 19:19	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			07/17/19 19:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.43	ug/L			07/17/19 19:19	1
1,1-Dichloroethane	1.0	U	1.0	0.26	ug/L			07/17/19 19:19	1
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			07/17/19 19:19	1
1,2,3-Trichlorobenzene	1.0	U	1.0	0.36	ug/L			07/17/19 19:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.37	ug/L			07/17/19 19:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.38	ug/L			07/17/19 19:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.43	ug/L			07/17/19 19:19	1
1,2-Dichloroethane	1.0	U	1.0	0.43	ug/L			07/17/19 19:19	1
1,2-Dichloropropane	1.0	U	1.0	0.35	ug/L			07/17/19 19:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.34	ug/L			07/17/19 19:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.33	ug/L			07/17/19 19:19	1
1,4-Dioxane	50	U	50	28	ug/L			07/17/19 19:19	1
2-Butanone (MEK)	5.0	U	5.0	1.9	ug/L			07/17/19 19:19	1
2-Hexanone	5.0	U	5.0	1.1	ug/L			07/17/19 19:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	1.3	ug/L			07/17/19 19:19	1
Acetone	5.0	U	5.0	4.4	ug/L			07/17/19 19:19	1
Benzene	1.0	U	1.0	0.20	ug/L			07/17/19 19:19	1
Bromoform	1.0	U	1.0	0.54	ug/L			07/17/19 19:19	1
Bromomethane	1.0	U	1.0	0.55	ug/L			07/17/19 19:19	1
Carbon disulfide	1.0	U	1.0	0.82	ug/L			07/17/19 19:19	1
Carbon tetrachloride	1.0	U	1.0	0.21	ug/L			07/17/19 19:19	1
Chlorobenzene	1.0	U	1.0	0.38	ug/L			07/17/19 19:19	1
Chlorobromomethane	1.0	U	1.0	0.41	ug/L			07/17/19 19:19	1
Chlorodibromomethane	1.0	U	1.0	0.28	ug/L			07/17/19 19:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			07/17/19 19:19	1
Chloroform	1.0	U	1.0	0.33	ug/L			07/17/19 19:19	1
Chloromethane	1.0	U	1.0	0.40	ug/L			07/17/19 19:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			07/17/19 19:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.22	ug/L			07/17/19 19:19	1

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-625284/9
Matrix: Water
Analysis Batch: 625284

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyclohexane	1.0	U	1.0	0.32	ug/L			07/17/19 19:19	1
Dichlorobromomethane	1.0	U	1.0	0.34	ug/L			07/17/19 19:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.31	ug/L			07/17/19 19:19	1
Ethylbenzene	1.0	U	1.0	0.30	ug/L			07/17/19 19:19	1
Ethylene Dibromide	1.0	U	1.0	0.50	ug/L			07/17/19 19:19	1
Isopropylbenzene	1.0	U	1.0	0.34	ug/L			07/17/19 19:19	1
Methyl acetate	5.0	U	5.0	0.79	ug/L			07/17/19 19:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.47	ug/L			07/17/19 19:19	1
Methylcyclohexane	1.0	U	1.0	0.26	ug/L			07/17/19 19:19	1
Methylene Chloride	1.0	U	1.0	0.32	ug/L			07/17/19 19:19	1
m-Xylene & p-Xylene	1.0	U	1.0	0.30	ug/L			07/17/19 19:19	1
o-Xylene	1.0	U	1.0	0.36	ug/L			07/17/19 19:19	1
Styrene	1.0	U	1.0	0.42	ug/L			07/17/19 19:19	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			07/17/19 19:19	1
Toluene	1.0	U	1.0	0.38	ug/L			07/17/19 19:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			07/17/19 19:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.49	ug/L			07/17/19 19:19	1
Trichloroethene	1.0	U	1.0	0.31	ug/L			07/17/19 19:19	1
Trichlorofluoromethane	1.0	U	1.0	0.32	ug/L			07/17/19 19:19	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			07/17/19 19:19	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	117		74 - 132		07/17/19 19:19	1
4-Bromofluorobenzene	94		77 - 124		07/17/19 19:19	1
Dibromofluoromethane (Surr)	104		72 - 131		07/17/19 19:19	1
Toluene-d8 (Surr)	112		80 - 120		07/17/19 19:19	1

Lab Sample ID: LCS 460-625284/4
Matrix: Water
Analysis Batch: 625284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	20.0	19.7		ug/L		99	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.9		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	78 - 120
1,1-Dichloroethane	20.0	22.0		ug/L		110	77 - 123
1,1-Dichloroethene	20.0	19.3		ug/L		96	74 - 123
1,2,3-Trichlorobenzene	20.0	13.6	*	ug/L		68	78 - 131
1,2,4-Trichlorobenzene	20.0	15.5	*	ug/L		77	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.9		ug/L		85	55 - 134
1,2-Dichlorobenzene	20.0	19.7		ug/L		98	80 - 120
1,2-Dichloroethane	20.0	21.6		ug/L		108	76 - 121
1,2-Dichloropropane	20.0	20.7		ug/L		103	77 - 123
1,3-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120
1,4-Dioxane	400	604	*	ug/L		151	10 - 150
2-Butanone (MEK)	100	101		ug/L		101	64 - 120

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-625284/4
Matrix: Water
Analysis Batch: 625284

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	100	93.3		ug/L		93	71 - 125
4-Methyl-2-pentanone (MIBK)	100	93.7		ug/L		94	78 - 124
Acetone	100	107		ug/L		107	39 - 150
Benzene	20.0	22.4		ug/L		112	77 - 121
Bromoform	20.0	14.1		ug/L		71	53 - 120
Bromomethane	20.0	21.4		ug/L		107	10 - 150
Carbon disulfide	20.0	22.1		ug/L		111	69 - 133
Carbon tetrachloride	20.0	18.5		ug/L		92	70 - 132
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120
Chlorobromomethane	20.0	18.7		ug/L		94	77 - 127
Chlorodibromomethane	20.0	17.3		ug/L		86	73 - 120
Chloroethane	20.0	21.4		ug/L		107	52 - 150
Chloroform	20.0	21.3		ug/L		106	80 - 120
Chloromethane	20.0	22.9		ug/L		114	56 - 131
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	80 - 120
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	77 - 120
Cyclohexane	20.0	18.8		ug/L		94	56 - 150
Dichlorobromomethane	20.0	18.8		ug/L		94	76 - 120
Dichlorodifluoromethane	20.0	16.1		ug/L		81	50 - 131
Ethylbenzene	20.0	20.9		ug/L		104	80 - 120
Ethylene Dibromide	20.0	19.0		ug/L		95	80 - 120
Isopropylbenzene	20.0	21.0		ug/L		105	80 - 123
Methyl acetate	40.0	41.0		ug/L		102	66 - 144
Methyl tert-butyl ether	20.0	20.6		ug/L		103	79 - 122
Methylcyclohexane	20.0	19.0		ug/L		95	61 - 145
Methylene Chloride	20.0	20.1		ug/L		100	77 - 123
m-Xylene & p-Xylene	20.0	20.4		ug/L		102	80 - 120
o-Xylene	20.0	20.0		ug/L		100	80 - 120
Styrene	20.0	20.0		ug/L		100	80 - 120
Tetrachloroethene	20.0	18.6		ug/L		93	78 - 122
Toluene	20.0	21.2		ug/L		106	80 - 120
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	79 - 120
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	76 - 120
Trichloroethene	20.0	19.3		ug/L		97	77 - 120
Trichlorofluoromethane	20.0	21.6		ug/L		108	71 - 143
Vinyl chloride	20.0	22.8		ug/L		114	62 - 138

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		74 - 132
4-Bromofluorobenzene	93		77 - 124
Dibromofluoromethane (Surr)	103		72 - 131
Toluene-d8 (Surr)	111		80 - 120

QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-625284/5

Matrix: Water

Analysis Batch: 625284

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	75 - 125	4	30
1,1,1,2-Tetrachloroethane	20.0	20.1		ug/L		101	74 - 120	2	30
1,1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.4		ug/L		102	59 - 150	3	30
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120	3	30
1,1-Dichloroethane	20.0	21.3		ug/L		107	77 - 123	3	30
1,1-Dichloroethene	20.0	19.1		ug/L		96	74 - 123	1	30
1,2,3-Trichlorobenzene	20.0	13.8	*	ug/L		69	78 - 131	2	30
1,2,4-Trichlorobenzene	20.0	15.7	*	ug/L		79	80 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	15.6		ug/L		78	55 - 134	8	30
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	1	30
1,2-Dichloroethane	20.0	21.6		ug/L		108	76 - 121	0	30
1,2-Dichloropropane	20.0	20.3		ug/L		102	77 - 123	2	30
1,3-Dichlorobenzene	20.0	19.6		ug/L		98	80 - 120	2	30
1,4-Dichlorobenzene	20.0	19.5		ug/L		98	80 - 120	1	30
1,4-Dioxane	400	574		ug/L		144	10 - 150	5	30
2-Butanone (MEK)	100	99.1		ug/L		99	64 - 120	2	30
2-Hexanone	100	93.2		ug/L		93	71 - 125	0	30
4-Methyl-2-pentanone (MIBK)	100	94.0		ug/L		94	78 - 124	0	30
Acetone	100	109		ug/L		109	39 - 150	2	30
Benzene	20.0	21.7		ug/L		109	77 - 121	3	30
Bromoform	20.0	13.8		ug/L		69	53 - 120	2	30
Bromomethane	20.0	20.7		ug/L		104	10 - 150	3	30
Carbon disulfide	20.0	21.3		ug/L		106	69 - 133	4	30
Carbon tetrachloride	20.0	18.0		ug/L		90	70 - 132	3	30
Chlorobenzene	20.0	19.4		ug/L		97	80 - 120	2	30
Chlorobromomethane	20.0	18.7		ug/L		94	77 - 127	0	30
Chlorodibromomethane	20.0	17.6		ug/L		88	73 - 120	2	30
Chloroethane	20.0	20.7		ug/L		103	52 - 150	3	30
Chloroform	20.0	20.8		ug/L		104	80 - 120	2	30
Chloromethane	20.0	22.3		ug/L		112	56 - 131	3	30
cis-1,2-Dichloroethene	20.0	18.9		ug/L		95	80 - 120	5	30
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	77 - 120	0	30
Cyclohexane	20.0	18.4		ug/L		92	56 - 150	2	30
Dichlorobromomethane	20.0	18.9		ug/L		94	76 - 120	0	30
Dichlorodifluoromethane	20.0	15.3		ug/L		77	50 - 131	5	30
Ethylbenzene	20.0	20.2		ug/L		101	80 - 120	3	30
Ethylene Dibromide	20.0	19.1		ug/L		96	80 - 120	0	30
Isopropylbenzene	20.0	20.2		ug/L		101	80 - 123	4	30
Methyl acetate	40.0	41.1		ug/L		103	66 - 144	0	30
Methyl tert-butyl ether	20.0	20.8		ug/L		104	79 - 122	1	30
Methylcyclohexane	20.0	18.2		ug/L		91	61 - 145	4	30
Methylene Chloride	20.0	20.0		ug/L		100	77 - 123	0	30
m-Xylene & p-Xylene	20.0	19.8		ug/L		99	80 - 120	3	30
o-Xylene	20.0	20.0		ug/L		100	80 - 120	0	30
Styrene	20.0	19.8		ug/L		99	80 - 120	1	30
Tetrachloroethene	20.0	17.9		ug/L		89	78 - 122	4	30
Toluene	20.0	20.4		ug/L		102	80 - 120	4	30
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	79 - 120	3	30

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-625284/5
Matrix: Water
Analysis Batch: 625284

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	76 - 120	1	30
Trichloroethene	20.0	18.7		ug/L		93	77 - 120	3	30
Trichlorofluoromethane	20.0	20.9		ug/L		105	71 - 143	3	30
Vinyl chloride	20.0	22.1		ug/L		110	62 - 138	3	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	114		74 - 132
4-Bromofluorobenzene	93		77 - 124
Dibromofluoromethane (Surr)	102		72 - 131
Toluene-d8 (Surr)	110		80 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-623788/1-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	10	U	10	1.2	ug/L		07/11/19 08:33	07/11/19 20:53	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,4-Dinitrophenol	20	U	20	14	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		07/11/19 08:33	07/11/19 20:53	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		07/11/19 08:33	07/11/19 20:53	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		07/11/19 08:33	07/11/19 20:53	1
2-Chlorophenol	10	U	10	0.38	ug/L		07/11/19 08:33	07/11/19 20:53	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		07/11/19 08:33	07/11/19 20:53	1
2-Methylphenol	10	U	10	0.26	ug/L		07/11/19 08:33	07/11/19 20:53	1
2-Nitroaniline	10	U	10	0.47	ug/L		07/11/19 08:33	07/11/19 20:53	1
2-Nitrophenol	10	U	10	0.75	ug/L		07/11/19 08:33	07/11/19 20:53	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		07/11/19 08:33	07/11/19 20:53	1
3-Nitroaniline	10	U	10	0.96	ug/L		07/11/19 08:33	07/11/19 20:53	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Chloroaniline	10	U	10	1.9	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Methylphenol	10	U	10	0.24	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Nitroaniline	10	U	10	0.54	ug/L		07/11/19 08:33	07/11/19 20:53	1
4-Nitrophenol	20	U	20	0.69	ug/L		07/11/19 08:33	07/11/19 20:53	1
Acenaphthene	10	U	10	1.1	ug/L		07/11/19 08:33	07/11/19 20:53	1
Acenaphthylene	10	U	10	0.82	ug/L		07/11/19 08:33	07/11/19 20:53	1
Acetophenone	10	U	10	0.79	ug/L		07/11/19 08:33	07/11/19 20:53	1
Anthracene	10	U	10	0.63	ug/L		07/11/19 08:33	07/11/19 20:53	1

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-623788/1-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	2.0	U	2.0	1.3	ug/L		07/11/19 08:33	07/11/19 20:53	1
Benzaldehyde	10	U	10	0.59	ug/L		07/11/19 08:33	07/11/19 20:53	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		07/11/19 08:33	07/11/19 20:53	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		07/11/19 08:33	07/11/19 20:53	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		07/11/19 08:33	07/11/19 20:53	1
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		07/11/19 08:33	07/11/19 20:53	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		07/11/19 08:33	07/11/19 20:53	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		07/11/19 08:33	07/11/19 20:53	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		07/11/19 08:33	07/11/19 20:53	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		07/11/19 08:33	07/11/19 20:53	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		07/11/19 08:33	07/11/19 20:53	1
Caprolactam	10	U	10	0.68	ug/L		07/11/19 08:33	07/11/19 20:53	1
Carbazole	10	U	10	0.68	ug/L		07/11/19 08:33	07/11/19 20:53	1
Chrysene	2.0	U	2.0	0.91	ug/L		07/11/19 08:33	07/11/19 20:53	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		07/11/19 08:33	07/11/19 20:53	1
Dibenzofuran	10	U	10	1.1	ug/L		07/11/19 08:33	07/11/19 20:53	1
Diethyl phthalate	10	U	10	0.98	ug/L		07/11/19 08:33	07/11/19 20:53	1
Dimethyl phthalate	10	U	10	0.77	ug/L		07/11/19 08:33	07/11/19 20:53	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		07/11/19 08:33	07/11/19 20:53	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		07/11/19 08:33	07/11/19 20:53	1
Fluoranthene	10	U	10	0.84	ug/L		07/11/19 08:33	07/11/19 20:53	1
Fluorene	10	U	10	0.91	ug/L		07/11/19 08:33	07/11/19 20:53	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		07/11/19 08:33	07/11/19 20:53	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		07/11/19 08:33	07/11/19 20:53	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		07/11/19 08:33	07/11/19 20:53	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		07/11/19 08:33	07/11/19 20:53	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		07/11/19 08:33	07/11/19 20:53	1
Isophorone	10	U	10	0.80	ug/L		07/11/19 08:33	07/11/19 20:53	1
Naphthalene	10	U	10	1.1	ug/L		07/11/19 08:33	07/11/19 20:53	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		07/11/19 08:33	07/11/19 20:53	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		07/11/19 08:33	07/11/19 20:53	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		07/11/19 08:33	07/11/19 20:53	1
Pentachlorophenol	20	U	20	1.4	ug/L		07/11/19 08:33	07/11/19 20:53	1
Phenanthrene	10	U	10	0.58	ug/L		07/11/19 08:33	07/11/19 20:53	1
Phenol	10	U	10	0.29	ug/L		07/11/19 08:33	07/11/19 20:53	1
Pyrene	10	U	10	1.6	ug/L		07/11/19 08:33	07/11/19 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		26 - 139	07/11/19 08:33	07/11/19 20:53	1
2-Fluorobiphenyl	86		45 - 107	07/11/19 08:33	07/11/19 20:53	1
2-Fluorophenol (Surr)	42		25 - 58	07/11/19 08:33	07/11/19 20:53	1
Nitrobenzene-d5 (Surr)	90		51 - 108	07/11/19 08:33	07/11/19 20:53	1
Phenol-d5 (Surr)	28		14 - 39	07/11/19 08:33	07/11/19 20:53	1
Terphenyl-d14 (Surr)	109		40 - 148	07/11/19 08:33	07/11/19 20:53	1

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-623788/2-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623788
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	80.0	68.6		ug/L		86	54 - 108
1,2,4,5-Tetrachlorobenzene	80.0	57.0		ug/L		71	46 - 105
2,2'-oxybis[1-chloropropane]	80.0	70.5		ug/L		88	50 - 108
2,3,4,6-Tetrachlorophenol	80.0	71.9		ug/L		90	57 - 122
2,4,5-Trichlorophenol	80.0	72.4		ug/L		90	59 - 117
2,4,6-Trichlorophenol	80.0	77.7		ug/L		97	62 - 120
2,4-Dichlorophenol	80.0	71.4		ug/L		89	62 - 102
2,4-Dimethylphenol	80.0	67.3		ug/L		84	61 - 95
2,4-Dinitrophenol	160	143		ug/L		89	45 - 125
2,4-Dinitrotoluene	80.0	82.4		ug/L		103	70 - 123
2,6-Dinitrotoluene	80.0	84.4		ug/L		106	68 - 121
2-Chloronaphthalene	80.0	65.9		ug/L		82	54 - 105
2-Chlorophenol	80.0	65.7		ug/L		82	54 - 92
2-Methylnaphthalene	80.0	58.3		ug/L		73	47 - 104
2-Methylphenol	80.0	54.3		ug/L		68	43 - 80
2-Nitroaniline	80.0	63.2		ug/L		79	46 - 124
2-Nitrophenol	80.0	75.4		ug/L		94	58 - 109
3,3'-Dichlorobenzidine	80.0	84.1		ug/L		105	68 - 123
3-Nitroaniline	80.0	74.8		ug/L		94	60 - 117
4,6-Dinitro-2-methylphenol	160	183		ug/L		114	59 - 132
4-Bromophenyl phenyl ether	80.0	77.1		ug/L		96	57 - 126
4-Chloro-3-methylphenol	80.0	63.8		ug/L		80	58 - 98
4-Chloroaniline	80.0	71.2		ug/L		89	51 - 108
4-Chlorophenyl phenyl ether	80.0	71.7		ug/L		90	60 - 114
4-Methylphenol	80.0	43.8		ug/L		55	34 - 78
4-Nitroaniline	80.0	74.6		ug/L		93	48 - 135
4-Nitrophenol	160	49.9		ug/L		31	11 - 47
Acenaphthene	80.0	67.3		ug/L		84	58 - 107
Acenaphthylene	80.0	72.5		ug/L		91	61 - 106
Acetophenone	80.0	71.6		ug/L		89	54 - 115
Anthracene	80.0	79.6		ug/L		99	70 - 118
Benzo[a]anthracene	80.0	82.1		ug/L		103	73 - 119
Benzo[a]pyrene	80.0	79.8		ug/L		100	76 - 125
Benzo[b]fluoranthene	80.0	84.8		ug/L		106	78 - 123
Benzo[g,h,i]perylene	80.0	78.2		ug/L		98	63 - 133
Benzo[k]fluoranthene	80.0	87.0		ug/L		109	71 - 126
Bis(2-chloroethoxy)methane	80.0	83.4		ug/L		104	67 - 104
Bis(2-chloroethyl)ether	80.0	83.4		ug/L		104	63 - 106
Bis(2-ethylhexyl) phthalate	80.0	102		ug/L		128	63 - 135
Butyl benzyl phthalate	80.0	91.7		ug/L		115	66 - 129
Carbazole	80.0	80.0		ug/L		100	68 - 121
Chrysene	80.0	88.6		ug/L		111	73 - 121
Dibenz(a,h)anthracene	80.0	90.1		ug/L		113	59 - 136
Dibenzofuran	80.0	71.7		ug/L		90	67 - 108
Diethyl phthalate	80.0	76.3		ug/L		95	61 - 129
Dimethyl phthalate	80.0	78.4		ug/L		98	65 - 121
Di-n-butyl phthalate	80.0	82.7		ug/L		103	64 - 130
Di-n-octyl phthalate	80.0	97.1		ug/L		121	64 - 131

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-623788/2-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoranthene	80.0	78.3		ug/L		98	66 - 123
Fluorene	80.0	73.8		ug/L		92	67 - 112
Hexachlorobenzene	80.0	80.9		ug/L		101	63 - 125
Hexachlorobutadiene	80.0	35.5		ug/L		44	34 - 99
Hexachlorocyclopentadiene	80.0	26.9		ug/L		34	18 - 99
Hexachloroethane	80.0	36.5		ug/L		46	39 - 92
Indeno[1,2,3-cd]pyrene	80.0	75.2		ug/L		94	57 - 142
Isophorone	80.0	78.4		ug/L		98	55 - 105
Naphthalene	80.0	57.4		ug/L		72	51 - 98
Nitrobenzene	80.0	76.1		ug/L		95	56 - 106
N-Nitrosodi-n-propylamine	80.0	76.4		ug/L		95	48 - 118
N-Nitrosodiphenylamine	80.0	82.6		ug/L		103	69 - 118
Pentachlorophenol	160	132		ug/L		82	54 - 120
Phenanthrene	80.0	79.4		ug/L		99	70 - 117
Phenol	80.0	30.2		ug/L		38	16 - 43
Pyrene	80.0	91.8		ug/L		115	63 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	91		26 - 139
2-Fluorobiphenyl	80		45 - 107
2-Fluorophenol (Surr)	41		25 - 58
Nitrobenzene-d5 (Surr)	85		51 - 108
Phenol-d5 (Surr)	29		14 - 39
Terphenyl-d14 (Surr)	104		40 - 148

Lab Sample ID: LCS 460-623788/4-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623788

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	160	232		ug/L		145	38 - 146
Benzaldehyde	160	208	*	ug/L		130	46 - 111
Caprolactam	160	64.6		ug/L		40	10 - 43

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	98		26 - 139
2-Fluorobiphenyl	96		45 - 107
2-Fluorophenol (Surr)	50		25 - 58
Nitrobenzene-d5 (Surr)	98		51 - 108
Phenol-d5 (Surr)	36		14 - 39
Terphenyl-d14 (Surr)	124		40 - 148

Lab Sample ID: LCSD 460-623788/3-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	68.2		ug/L		85	54 - 108	1	30

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-623788/3-A

Matrix: Water

Analysis Batch: 623957

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 623788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD
									Limit
1,2,4,5-Tetrachlorobenzene	80.0	57.8		ug/L		72	46 - 105	1	30
2,2'-oxybis[1-chloropropane]	80.0	71.7		ug/L		90	50 - 108	2	30
2,3,4,6-Tetrachlorophenol	80.0	69.7		ug/L		87	57 - 122	3	30
2,4,5-Trichlorophenol	80.0	72.0		ug/L		90	59 - 117	0	30
2,4,6-Trichlorophenol	80.0	77.1		ug/L		96	62 - 120	1	30
2,4-Dichlorophenol	80.0	70.4		ug/L		88	62 - 102	1	30
2,4-Dimethylphenol	80.0	66.3		ug/L		83	61 - 95	2	30
2,4-Dinitrophenol	160	140		ug/L		88	45 - 125	2	30
2,4-Dinitrotoluene	80.0	82.0		ug/L		102	70 - 123	1	30
2,6-Dinitrotoluene	80.0	84.9		ug/L		106	68 - 121	1	30
2-Chloronaphthalene	80.0	65.0		ug/L		81	54 - 105	1	30
2-Chlorophenol	80.0	65.7		ug/L		82	54 - 92	0	30
2-Methylnaphthalene	80.0	58.7		ug/L		73	47 - 104	1	30
2-Methylphenol	80.0	54.7		ug/L		68	43 - 80	1	30
2-Nitroaniline	80.0	61.5		ug/L		77	46 - 124	3	30
2-Nitrophenol	80.0	75.1		ug/L		94	58 - 109	0	30
3,3'-Dichlorobenzidine	80.0	86.1		ug/L		108	68 - 123	2	30
3-Nitroaniline	80.0	73.8		ug/L		92	60 - 117	1	30
4,6-Dinitro-2-methylphenol	160	182		ug/L		114	59 - 132	1	30
4-Bromophenyl phenyl ether	80.0	76.8		ug/L		96	57 - 126	0	30
4-Chloro-3-methylphenol	80.0	65.1		ug/L		81	58 - 98	2	30
4-Chloroaniline	80.0	72.1		ug/L		90	51 - 108	1	30
4-Chlorophenyl phenyl ether	80.0	71.4		ug/L		89	60 - 114	0	30
4-Methylphenol	80.0	44.9		ug/L		56	34 - 78	2	30
4-Nitroaniline	80.0	75.0		ug/L		94	48 - 135	0	30
4-Nitrophenol	160	49.8		ug/L		31	11 - 47	0	30
Acenaphthene	80.0	67.0		ug/L		84	58 - 107	1	30
Acenaphthylene	80.0	72.3		ug/L		90	61 - 106	0	30
Acetophenone	80.0	72.7		ug/L		91	54 - 115	1	30
Anthracene	80.0	80.1		ug/L		100	70 - 118	1	30
Benzo[a]anthracene	80.0	83.4		ug/L		104	73 - 119	2	30
Benzo[a]pyrene	80.0	80.8		ug/L		101	76 - 125	1	30
Benzo[b]fluoranthene	80.0	85.7		ug/L		107	78 - 123	1	30
Benzo[g,h,i]perylene	80.0	79.9		ug/L		100	63 - 133	2	30
Benzo[k]fluoranthene	80.0	86.6		ug/L		108	71 - 126	0	30
Bis(2-chloroethoxy)methane	80.0	81.6		ug/L		102	67 - 104	2	30
Bis(2-chloroethyl)ether	80.0	84.5		ug/L		106	63 - 106	1	30
Bis(2-ethylhexyl) phthalate	80.0	104		ug/L		130	63 - 135	1	30
Butyl benzyl phthalate	80.0	92.7		ug/L		116	66 - 129	1	30
Carbazole	80.0	80.1		ug/L		100	68 - 121	0	30
Chrysene	80.0	89.5		ug/L		112	73 - 121	1	30
Dibenz(a,h)anthracene	80.0	96.5		ug/L		121	59 - 136	7	30
Dibenzofuran	80.0	71.8		ug/L		90	67 - 108	0	30
Diethyl phthalate	80.0	76.2		ug/L		95	61 - 129	0	30
Dimethyl phthalate	80.0	77.9		ug/L		97	65 - 121	1	30
Di-n-butyl phthalate	80.0	82.2		ug/L		103	64 - 130	1	30
Di-n-octyl phthalate	80.0	97.4		ug/L		122	64 - 131	0	30
Fluoranthene	80.0	77.2		ug/L		96	66 - 123	1	30
Fluorene	80.0	73.0		ug/L		91	67 - 112	1	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-623788/3-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	80.0	81.5		ug/L		102	63 - 125	1	30
Hexachlorobutadiene	80.0	35.2		ug/L		44	34 - 99	1	30
Hexachlorocyclopentadiene	80.0	27.0		ug/L		34	18 - 99	0	30
Hexachloroethane	80.0	36.5		ug/L		46	39 - 92	0	30
Indeno[1,2,3-cd]pyrene	80.0	75.2		ug/L		94	57 - 142	0	30
Isophorone	80.0	79.0		ug/L		99	55 - 105	1	30
Naphthalene	80.0	57.2		ug/L		72	51 - 98	0	30
Nitrobenzene	80.0	77.2		ug/L		96	56 - 106	1	30
N-Nitrosodi-n-propylamine	80.0	76.1		ug/L		95	48 - 118	0	30
N-Nitrosodiphenylamine	80.0	80.5		ug/L		101	69 - 118	3	30
Pentachlorophenol	160	133		ug/L		83	54 - 120	1	30
Phenanthrene	80.0	79.5		ug/L		99	70 - 117	0	30
Phenol	80.0	30.4		ug/L		38	16 - 43	1	30
Pyrene	80.0	91.9		ug/L		115	63 - 129	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	91		26 - 139
2-Fluorobiphenyl	80		45 - 107
2-Fluorophenol (Surr)	41		25 - 58
Nitrobenzene-d5 (Surr)	84		51 - 108
Phenol-d5 (Surr)	29		14 - 39
Terphenyl-d14 (Surr)	105		40 - 148

Lab Sample ID: LCSD 460-623788/5-A
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 623788

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	160	169	*	ug/L		106	38 - 146	31	30
Benzaldehyde	160	146	*	ug/L		91	46 - 111	35	30
Caprolactam	160	40.6	*	ug/L		25	10 - 43	46	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	49		26 - 139
2-Fluorobiphenyl	83		45 - 107
2-Fluorophenol (Surr)	24	*	25 - 58
Nitrobenzene-d5 (Surr)	92		51 - 108
Phenol-d5 (Surr)	21		14 - 39
Terphenyl-d14 (Surr)	117		40 - 148

Lab Sample ID: 460-186201-F-4-A MSD
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	500	U	80.0	76.6	J	ug/L		96	54 - 108	12	30
1,2,4,5-Tetrachlorobenzene	500	U	80.0	64.1	J	ug/L		80	46 - 105	NC	30
2,2'-oxybis[1-chloropropane]	500	U	80.0	85.7	J	ug/L		107	50 - 108	24	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186201-F-4-A MSD

Matrix: Water

Analysis Batch: 623957

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 623788

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
2,3,4,6-Tetrachlorophenol	500	U	80.0	53.9	J *	ug/L		67	57 - 122	34	30
2,4,5-Trichlorophenol	500	U	80.0	47.0	J	ug/L		59	59 - 117	15	30
2,4,6-Trichlorophenol	500	U	80.0	67.1	J	ug/L		84	62 - 120	20	30
2,4-Dichlorophenol	500	U	80.0	41.8	J *	ug/L		52	62 - 102	NC	30
2,4-Dimethylphenol	500	U	80.0	86.4	J *	ug/L		108	61 - 95	58	30
2,4-Dinitrophenol	1000	U	160	1000	U	ug/L		NC	45 - 125	NC	30
2,4-Dinitrotoluene	100	U	80.0	100	U *	ug/L		0	70 - 123	NC	30
2,6-Dinitrotoluene	100	U	80.0	61.3	J	ug/L		77	68 - 121	0	30
2-Chloronaphthalene	500	U	80.0	72.5	J	ug/L		91	54 - 105	17	30
2-Chlorophenol	500	U	80.0	57.1	J	ug/L		71	54 - 92	NC	30
2-Methylnaphthalene	500	U	80.0	66.9	J	ug/L		84	47 - 104	14	30
2-Methylphenol	500	U	80.0	48.7	J *	ug/L		61	43 - 80	73	30
2-Nitroaniline	500	U	80.0	500	U *	ug/L		0	46 - 124	NC	30
2-Nitrophenol	500	U	80.0	48.1	J	ug/L		60	58 - 109	NC	30
3,3'-Dichlorobenzidine	500	U	80.0	500	U *	ug/L		0	68 - 123	NC	30
3-Nitroaniline	500	U	80.0	500	U *	ug/L		0	60 - 117	NC	30
4,6-Dinitro-2-methylphenol	1000	U	160	1000	U	ug/L		NC	59 - 132	NC	30
4-Bromophenyl phenyl ether	500	U	80.0	77.1	J	ug/L		96	57 - 126	11	30
4-Chloro-3-methylphenol	500	U	80.0	500	U *	ug/L		0	58 - 98	NC	30
4-Chloroaniline	500	U	80.0	500	U	ug/L		NC	51 - 108	NC	30
4-Chlorophenyl phenyl ether	500	U	80.0	83.5	J	ug/L		104	60 - 114	23	30
4-Methylphenol	500	U	80.0	500	U *	ug/L		0	34 - 78	NC	30
4-Nitroaniline	500	U	80.0	500	U *	ug/L		0	48 - 135	NC	30
4-Nitrophenol	1000	U	160	39.2	J	ug/L		24	11 - 47	NC	30
Acenaphthene	500	U	80.0	82.0	J	ug/L		102	58 - 107	12	30
Acenaphthylene	500	U	80.0	81.0	J	ug/L		101	61 - 106	19	30
Acetophenone	500	U	80.0	66.4	J	ug/L		83	54 - 115	NC	30
Anthracene	500	U	80.0	76.1	J	ug/L		95	70 - 118	9	30
Atrazine	100	U *	160	132		ug/L		82	38 - 146	4	30
Benzaldehyde	500	U *	160	57.4	J *	ug/L		36	46 - 111	21	30
Benzo[a]anthracene	50	U	80.0	85.9		ug/L		107	73 - 119	5	30
Benzo[a]pyrene	50	U	80.0	63.8		ug/L		80	76 - 125	7	30
Benzo[b]fluoranthene	100	U	80.0	77.0	J	ug/L		96	78 - 123	5	30
Benzo[g,h,i]perylene	500	U	80.0	500	U *	ug/L		0	63 - 133	NC	30
Benzo[k]fluoranthene	50	U	80.0	85.7		ug/L		107	71 - 126	7	30
Bis(2-chloroethoxy)methane	500	U	80.0	71.8	J	ug/L		90	67 - 104	28	30
Bis(2-chloroethyl)ether	50	U	80.0	61.6		ug/L		77	63 - 106	NC	30
Bis(2-ethylhexyl) phthalate	100	U	80.0	100	U	ug/L		NC	63 - 135	NC	30
Butyl benzyl phthalate	500	U	80.0	69.9	J	ug/L		87	66 - 129	17	30
Caprolactam	500	U *	160	500	U *	ug/L		0	10 - 43	NC	30
Carbazole	500	U	80.0	76.2	J	ug/L		95	68 - 121	9	30
Chrysene	100	U	80.0	105	*	ug/L		131	73 - 121	8	30
Dibenz(a,h)anthracene	50	U	80.0	78.1		ug/L		98	59 - 136	10	30
Dibenzofuran	500	U	80.0	80.8	J	ug/L		101	67 - 108	14	30
Diethyl phthalate	2800		80.0	377	J *	ug/L		-2975	61 - 129	3	30
Dimethyl phthalate	500	U	80.0	84.9	J	ug/L		106	65 - 121	11	30
Di-n-butyl phthalate	500	U	80.0	69.5	J	ug/L		87	64 - 130	9	30
Di-n-octyl phthalate	500	U	80.0	500	U	ug/L		NC	64 - 131	NC	30
Fluoranthene	500	U	80.0	76.9	J	ug/L		96	66 - 123	2	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186201-F-4-A MSD

Matrix: Water

Analysis Batch: 623957

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 623788

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
				Result	Qualifier				Limits	RPD		
Fluorene	500	U	80.0	85.5	J	ug/L		107	67 - 112	8	30	
Hexachlorobenzene	50	U	80.0	84.9		ug/L		106	63 - 125	3	30	
Hexachlorobutadiene	50	U	80.0	44.5	J	ug/L		56	34 - 99	NC	30	
Hexachlorocyclopentadiene	500	U	80.0	500	U	ug/L		NC	18 - 99	NC	30	
Hexachloroethane	100	U	80.0	100	U *	ug/L		0	39 - 92	NC	30	
Indeno[1,2,3-cd]pyrene	100	U	80.0	83.3	J	ug/L		104	57 - 142	0	30	
Isophorone	500	U	80.0	75.1	J	ug/L		94	55 - 105	15	30	
Naphthalene	500	U	80.0	74.0	J	ug/L		92	51 - 98	24	30	
Nitrobenzene	50	U	80.0	57.3	*	ug/L		72	56 - 106	43	30	
N-Nitrosodi-n-propylamine	50	U	80.0	73.1	*	ug/L		91	48 - 118	34	30	
N-Nitrosodiphenylamine	500	U	80.0	79.2	J	ug/L		99	69 - 118	11	30	
Pentachlorophenol	1000	U	160	1000	U *	ug/L		0	54 - 120	NC	30	
Phenanthrene	500	U	80.0	89.4	J	ug/L		112	70 - 117	1	30	
Phenol	500	U	80.0	500	U *	ug/L		0	16 - 43	NC	30	
Pyrene	500	U	80.0	97.3	J	ug/L		NC	63 - 129	14	30	

Surrogate	MSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	0	*	26 - 139
2-Fluorobiphenyl	0	*	45 - 107
2-Fluorophenol (Surr)	0	*	25 - 58
Nitrobenzene-d5 (Surr)	0	*	51 - 108
Phenol-d5 (Surr)	0	*	14 - 39
Terphenyl-d14 (Surr)	0	*	40 - 148

Lab Sample ID: 460-186201-H-4-A MS

Matrix: Water

Analysis Batch: 623957

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 623788

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
1,1'-Biphenyl	500	U	80.0	67.8	J	ug/L		85	54 - 108	
1,2,4,5-Tetrachlorobenzene	500	U	80.0	500	U *	ug/L		0	46 - 105	
2,2'-oxybis[1-chloropropane]	500	U	80.0	67.1	J	ug/L		84	50 - 108	
2,3,4,6-Tetrachlorophenol	500	U	80.0	38.2	J *	ug/L		48	57 - 122	
2,4,5-Trichlorophenol	500	U	80.0	40.4	J *	ug/L		51	59 - 117	
2,4,6-Trichlorophenol	500	U	80.0	54.6	J	ug/L		68	62 - 120	
2,4-Dichlorophenol	500	U	80.0	500	U *	ug/L		0	62 - 102	
2,4-Dimethylphenol	500	U	80.0	47.3	J *	ug/L		59	61 - 95	
2,4-Dinitrophenol	1000	U	160	1000	U	ug/L		NC	45 - 125	
2,4-Dinitrotoluene	100	U	80.0	100	U *	ug/L		0	70 - 123	
2,6-Dinitrotoluene	100	U	80.0	61.2	J	ug/L		76	68 - 121	
2-Chloronaphthalene	500	U	80.0	61.1	J	ug/L		76	54 - 105	
2-Chlorophenol	500	U	80.0	500	U *	ug/L		0	54 - 92	
2-Methylnaphthalene	500	U	80.0	58.2	J	ug/L		73	47 - 104	
2-Methylphenol	500	U	80.0	22.6	J *	ug/L		28	43 - 80	
2-Nitroaniline	500	U	80.0	500	U *	ug/L		0	46 - 124	
2-Nitrophenol	500	U	80.0	500	U *	ug/L		0	58 - 109	
3,3'-Dichlorobenzidine	500	U	80.0	500	U *	ug/L		0	68 - 123	
3-Nitroaniline	500	U	80.0	500	U *	ug/L		0	60 - 117	

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186201-H-4-A MS

Matrix: Water

Analysis Batch: 623957

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 623788

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
4,6-Dinitro-2-methylphenol	1000	U	160	1000	U	ug/L		NC	59 - 132
4-Bromophenyl phenyl ether	500	U	80.0	69.4	J	ug/L		87	57 - 126
4-Chloro-3-methylphenol	500	U	80.0	64.4	J	ug/L		81	58 - 98
4-Chloroaniline	500	U	80.0	500	U	ug/L		NC	51 - 108
4-Chlorophenyl phenyl ether	500	U	80.0	66.5	J	ug/L		83	60 - 114
4-Methylphenol	500	U	80.0	500	U *	ug/L		0	34 - 78
4-Nitroaniline	500	U	80.0	500	U *	ug/L		0	48 - 135
4-Nitrophenol	1000	U	160	1000	U *	ug/L		0	11 - 47
Acenaphthene	500	U	80.0	72.7	J	ug/L		91	58 - 107
Acenaphthylene	500	U	80.0	66.8	J	ug/L		84	61 - 106
Acetophenone	500	U	80.0	500	U *	ug/L		0	54 - 115
Anthracene	500	U	80.0	69.3	J	ug/L		87	70 - 118
Atrazine	100	U *	160	126		ug/L		79	38 - 146
Benzaldehyde	500	U *	160	46.7	J *	ug/L		29	46 - 111
Benzo[a]anthracene	50	U	80.0	81.3		ug/L		102	73 - 119
Benzo[a]pyrene	50	U	80.0	68.2		ug/L		85	76 - 125
Benzo[b]fluoranthene	100	U	80.0	73.5	J	ug/L		92	78 - 123
Benzo[g,h,i]perylene	500	U	80.0	500	U *	ug/L		0	63 - 133
Benzo[k]fluoranthene	50	U	80.0	79.6		ug/L		99	71 - 126
Bis(2-chloroethoxy)methane	500	U	80.0	54.3	J	ug/L		68	67 - 104
Bis(2-chloroethyl)ether	50	U	80.0	50	U *	ug/L		0	63 - 106
Bis(2-ethylhexyl) phthalate	100	U	80.0	100	U	ug/L		NC	63 - 135
Butyl benzyl phthalate	500	U	80.0	59.0	J	ug/L		74	66 - 129
Caprolactam	500	U *	160	500	U *	ug/L		0	10 - 43
Carbazole	500	U	80.0	69.4	J	ug/L		87	68 - 121
Chrysene	100	U	80.0	97.0	J	ug/L		121	73 - 121
Dibenz(a,h)anthracene	50	U	80.0	70.8		ug/L		89	59 - 136
Dibenzofuran	500	U	80.0	70.2	J	ug/L		88	67 - 108
Diethyl phthalate	2800		80.0	366	J *	ug/L		-2989	61 - 129
Dimethyl phthalate	500	U	80.0	76.0	J	ug/L		95	65 - 121
Di-n-butyl phthalate	500	U	80.0	63.5	J	ug/L		79	64 - 130
Di-n-octyl phthalate	500	U	80.0	500	U	ug/L		NC	64 - 131
Fluoranthene	500	U	80.0	75.0	J	ug/L		94	66 - 123
Fluorene	500	U	80.0	79.2	J	ug/L		99	67 - 112
Hexachlorobenzene	50	U	80.0	82.2		ug/L		103	63 - 125
Hexachlorobutadiene	50	U	80.0	50	U *	ug/L		0	34 - 99
Hexachlorocyclopentadiene	500	U	80.0	500	U	ug/L		NC	18 - 99
Hexachloroethane	100	U	80.0	100	U *	ug/L		0	39 - 92
Indeno[1,2,3-cd]pyrene	100	U	80.0	83.4	J	ug/L		104	57 - 142
Isophorone	500	U	80.0	64.4	J	ug/L		81	55 - 105
Naphthalene	500	U	80.0	58.1	J	ug/L		73	51 - 98
Nitrobenzene	50	U	80.0	37.0	J *	ug/L		46	56 - 106
N-Nitrosodi-n-propylamine	50	U	80.0	52.0		ug/L		65	48 - 118
N-Nitrosodiphenylamine	500	U	80.0	71.3	J	ug/L		89	69 - 118
Pentachlorophenol	1000	U	160	1000	U *	ug/L		0	54 - 120
Phenanthrene	500	U	80.0	90.6	J	ug/L		113	70 - 117
Phenol	500	U	80.0	500	U *	ug/L		0	16 - 43
Pyrene	500	U	80.0	84.8	J	ug/L		NC	63 - 129

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186201-H-4-A MS
Matrix: Water
Analysis Batch: 623957

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623788

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	0	*	26 - 139
2-Fluorobiphenyl	0	*	45 - 107
2-Fluorophenol (Surr)	0	*	25 - 58
Nitrobenzene-d5 (Surr)	0	*	51 - 108
Phenol-d5 (Surr)	0	*	14 - 39
Terphenyl-d14 (Surr)	0	*	40 - 148

Lab Sample ID: MB 460-624444/1-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624444

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1'-Biphenyl	10	U	10	1.2	ug/L		07/14/19 07:02	07/14/19 22:54	1
1,2,4,5-Tetrachlorobenzene	10	U	10	1.2	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,2'-oxybis[1-chloropropane]	10	U	10	0.63	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,3,4,6-Tetrachlorophenol	10	U	10	0.75	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,4,5-Trichlorophenol	10	U	10	0.28	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,4,6-Trichlorophenol	10	U	10	0.30	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,4-Dichlorophenol	10	U	10	0.42	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,4-Dimethylphenol	10	U	10	0.24	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,4-Dinitrophenol	20	U	20	14	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,4-Dinitrotoluene	2.0	U	2.0	1.0	ug/L		07/14/19 07:02	07/14/19 22:54	1
2,6-Dinitrotoluene	2.0	U	2.0	0.39	ug/L		07/14/19 07:02	07/14/19 22:54	1
2-Chloronaphthalene	10	U	10	1.2	ug/L		07/14/19 07:02	07/14/19 22:54	1
2-Chlorophenol	10	U	10	0.38	ug/L		07/14/19 07:02	07/14/19 22:54	1
2-Methylnaphthalene	10	U	10	1.1	ug/L		07/14/19 07:02	07/14/19 22:54	1
2-Methylphenol	10	U	10	0.26	ug/L		07/14/19 07:02	07/14/19 22:54	1
2-Nitroaniline	10	U	10	0.47	ug/L		07/14/19 07:02	07/14/19 22:54	1
2-Nitrophenol	10	U	10	0.75	ug/L		07/14/19 07:02	07/14/19 22:54	1
3,3'-Dichlorobenzidine	10	U	10	1.4	ug/L		07/14/19 07:02	07/14/19 22:54	1
3-Nitroaniline	10	U	10	0.96	ug/L		07/14/19 07:02	07/14/19 22:54	1
4,6-Dinitro-2-methylphenol	20	U	20	13	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Bromophenyl phenyl ether	10	U	10	0.75	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Chloro-3-methylphenol	10	U	10	0.58	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Chloroaniline	10	U	10	1.9	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Chlorophenyl phenyl ether	10	U	10	1.3	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Methylphenol	10	U	10	0.24	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Nitroaniline	10	U	10	0.54	ug/L		07/14/19 07:02	07/14/19 22:54	1
4-Nitrophenol	20	U	20	0.69	ug/L		07/14/19 07:02	07/14/19 22:54	1
Acenaphthene	10	U	10	1.1	ug/L		07/14/19 07:02	07/14/19 22:54	1
Acenaphthylene	10	U	10	0.82	ug/L		07/14/19 07:02	07/14/19 22:54	1
Acetophenone	10	U	10	0.79	ug/L		07/14/19 07:02	07/14/19 22:54	1
Anthracene	10	U	10	0.63	ug/L		07/14/19 07:02	07/14/19 22:54	1
Atrazine	2.0	U	2.0	1.3	ug/L		07/14/19 07:02	07/14/19 22:54	1
Benzaldehyde	10	U	10	0.59	ug/L		07/14/19 07:02	07/14/19 22:54	1
Benzo[a]anthracene	1.0	U	1.0	0.59	ug/L		07/14/19 07:02	07/14/19 22:54	1
Benzo[a]pyrene	1.0	U	1.0	0.41	ug/L		07/14/19 07:02	07/14/19 22:54	1
Benzo[b]fluoranthene	2.0	U	2.0	1.1	ug/L		07/14/19 07:02	07/14/19 22:54	1

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-624444/1-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624444

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzo[g,h,i]perylene	10	U	10	1.4	ug/L		07/14/19 07:02	07/14/19 22:54	1
Benzo[k]fluoranthene	1.0	U	1.0	0.67	ug/L		07/14/19 07:02	07/14/19 22:54	1
Bis(2-chloroethoxy)methane	10	U	10	0.24	ug/L		07/14/19 07:02	07/14/19 22:54	1
Bis(2-chloroethyl)ether	1.0	U	1.0	0.30	ug/L		07/14/19 07:02	07/14/19 22:54	1
Bis(2-ethylhexyl) phthalate	2.0	U	2.0	1.7	ug/L		07/14/19 07:02	07/14/19 22:54	1
Butyl benzyl phthalate	10	U	10	0.85	ug/L		07/14/19 07:02	07/14/19 22:54	1
Caprolactam	10	U	10	0.68	ug/L		07/14/19 07:02	07/14/19 22:54	1
Carbazole	10	U	10	0.68	ug/L		07/14/19 07:02	07/14/19 22:54	1
Chrysene	2.0	U	2.0	0.91	ug/L		07/14/19 07:02	07/14/19 22:54	1
Dibenz(a,h)anthracene	1.0	U	1.0	0.72	ug/L		07/14/19 07:02	07/14/19 22:54	1
Dibenzofuran	10	U	10	1.1	ug/L		07/14/19 07:02	07/14/19 22:54	1
Diethyl phthalate	10	U	10	0.98	ug/L		07/14/19 07:02	07/14/19 22:54	1
Dimethyl phthalate	10	U	10	0.77	ug/L		07/14/19 07:02	07/14/19 22:54	1
Di-n-butyl phthalate	10	U	10	0.84	ug/L		07/14/19 07:02	07/14/19 22:54	1
Di-n-octyl phthalate	10	U	10	4.8	ug/L		07/14/19 07:02	07/14/19 22:54	1
Fluoranthene	10	U	10	0.84	ug/L		07/14/19 07:02	07/14/19 22:54	1
Fluorene	10	U	10	0.91	ug/L		07/14/19 07:02	07/14/19 22:54	1
Hexachlorobenzene	1.0	U	1.0	0.40	ug/L		07/14/19 07:02	07/14/19 22:54	1
Hexachlorobutadiene	1.0	U	1.0	0.78	ug/L		07/14/19 07:02	07/14/19 22:54	1
Hexachlorocyclopentadiene	10	U	10	1.7	ug/L		07/14/19 07:02	07/14/19 22:54	1
Hexachloroethane	2.0	U	2.0	1.2	ug/L		07/14/19 07:02	07/14/19 22:54	1
Indeno[1,2,3-cd]pyrene	2.0	U	2.0	1.3	ug/L		07/14/19 07:02	07/14/19 22:54	1
Isophorone	10	U	10	0.80	ug/L		07/14/19 07:02	07/14/19 22:54	1
Naphthalene	10	U	10	1.1	ug/L		07/14/19 07:02	07/14/19 22:54	1
Nitrobenzene	1.0	U	1.0	0.57	ug/L		07/14/19 07:02	07/14/19 22:54	1
N-Nitrosodi-n-propylamine	1.0	U	1.0	0.43	ug/L		07/14/19 07:02	07/14/19 22:54	1
N-Nitrosodiphenylamine	10	U	10	0.89	ug/L		07/14/19 07:02	07/14/19 22:54	1
Pentachlorophenol	20	U	20	1.4	ug/L		07/14/19 07:02	07/14/19 22:54	1
Phenanthrene	10	U	10	0.58	ug/L		07/14/19 07:02	07/14/19 22:54	1
Phenol	10	U	10	0.29	ug/L		07/14/19 07:02	07/14/19 22:54	1
Pyrene	10	U	10	1.6	ug/L		07/14/19 07:02	07/14/19 22:54	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	113		26 - 139	07/14/19 07:02	07/14/19 22:54	1
2-Fluorobiphenyl	107		45 - 107	07/14/19 07:02	07/14/19 22:54	1
2-Fluorophenol (Surr)	45		25 - 58	07/14/19 07:02	07/14/19 22:54	1
Nitrobenzene-d5 (Surr)	104		51 - 108	07/14/19 07:02	07/14/19 22:54	1
Phenol-d5 (Surr)	27		14 - 39	07/14/19 07:02	07/14/19 22:54	1
Terphenyl-d14 (Surr)	127		40 - 148	07/14/19 07:02	07/14/19 22:54	1

Lab Sample ID: LCS 460-624444/2-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,1'-Biphenyl	80.0	77.3		ug/L		97	54 - 108
1,2,4,5-Tetrachlorobenzene	80.0	82.8		ug/L		104	46 - 105
2,2'-oxybis[1-chloropropane]	80.0	53.7		ug/L		67	50 - 108

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-624444/2-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,4,6-Tetrachlorophenol	80.0	87.3		ug/L		109	57 - 122
2,4,5-Trichlorophenol	80.0	81.9		ug/L		102	59 - 117
2,4,6-Trichlorophenol	80.0	95.4		ug/L		119	62 - 120
2,4-Dichlorophenol	80.0	80.9		ug/L		101	62 - 102
2,4-Dimethylphenol	80.0	64.6		ug/L		81	61 - 95
2,4-Dinitrophenol	160	132		ug/L		83	45 - 125
2,4-Dinitrotoluene	80.0	85.1		ug/L		106	70 - 123
2,6-Dinitrotoluene	80.0	85.6		ug/L		107	68 - 121
2-Chloronaphthalene	80.0	74.9		ug/L		94	54 - 105
2-Chlorophenol	80.0	72.8		ug/L		91	54 - 92
2-Methylnaphthalene	80.0	68.9		ug/L		86	47 - 104
2-Methylphenol	80.0	61.0		ug/L		76	43 - 80
2-Nitroaniline	80.0	76.7		ug/L		96	46 - 124
2-Nitrophenol	80.0	78.6		ug/L		98	58 - 109
3,3'-Dichlorobenzidine	80.0	80.3		ug/L		100	68 - 123
3-Nitroaniline	80.0	59.9		ug/L		75	60 - 117
4,6-Dinitro-2-methylphenol	160	192		ug/L		120	59 - 132
4-Bromophenyl phenyl ether	80.0	94.8		ug/L		118	57 - 126
4-Chloro-3-methylphenol	80.0	74.7		ug/L		93	58 - 98
4-Chloroaniline	80.0	58.8		ug/L		74	51 - 108
4-Chlorophenyl phenyl ether	80.0	85.8		ug/L		107	60 - 114
4-Methylphenol	80.0	55.2		ug/L		69	34 - 78
4-Nitroaniline	80.0	57.4		ug/L		72	48 - 135
4-Nitrophenol	160	62.5		ug/L		39	11 - 47
Acenaphthene	80.0	71.6		ug/L		89	58 - 107
Acenaphthylene	80.0	76.1		ug/L		95	61 - 106
Acetophenone	80.0	84.0		ug/L		105	54 - 115
Anthracene	80.0	84.0		ug/L		105	70 - 118
Benzo[a]anthracene	80.0	82.4		ug/L		103	73 - 119
Benzo[a]pyrene	80.0	74.4		ug/L		93	76 - 125
Benzo[b]fluoranthene	80.0	71.8		ug/L		90	78 - 123
Benzo[g,h,i]perylene	80.0	113	*	ug/L		141	63 - 133
Benzo[k]fluoranthene	80.0	71.0		ug/L		89	71 - 126
Bis(2-chloroethoxy)methane	80.0	70.8		ug/L		88	67 - 104
Bis(2-chloroethyl)ether	80.0	71.8		ug/L		90	63 - 106
Bis(2-ethylhexyl) phthalate	80.0	97.8		ug/L		122	63 - 135
Butyl benzyl phthalate	80.0	89.4		ug/L		112	66 - 129
Carbazole	80.0	77.5		ug/L		97	68 - 121
Chrysene	80.0	84.2		ug/L		105	73 - 121
Dibenz(a,h)anthracene	80.0	114	*	ug/L		142	59 - 136
Dibenzofuran	80.0	77.7		ug/L		97	67 - 108
Diethyl phthalate	80.0	87.5		ug/L		109	61 - 129
Dimethyl phthalate	80.0	86.8		ug/L		109	65 - 121
Di-n-butyl phthalate	80.0	94.6		ug/L		118	64 - 130
Di-n-octyl phthalate	80.0	75.2		ug/L		94	64 - 131
Fluoranthene	80.0	86.0		ug/L		108	66 - 123
Fluorene	80.0	79.6		ug/L		99	67 - 112
Hexachlorobenzene	80.0	111	*	ug/L		139	63 - 125
Hexachlorobutadiene	80.0	65.7		ug/L		82	34 - 99

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-624444/2-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorocyclopentadiene	80.0	54.5		ug/L		68	18 - 99
Hexachloroethane	80.0	57.9		ug/L		72	39 - 92
Indeno[1,2,3-cd]pyrene	80.0	117	*	ug/L		146	57 - 142
Isophorone	80.0	73.2		ug/L		91	55 - 105
Naphthalene	80.0	63.4		ug/L		79	51 - 98
Nitrobenzene	80.0	82.7		ug/L		103	56 - 106
N-Nitrosodi-n-propylamine	80.0	81.6		ug/L		102	48 - 118
N-Nitrosodiphenylamine	80.0	84.8		ug/L		106	69 - 118
Pentachlorophenol	160	170		ug/L		106	54 - 120
Phenanthrene	80.0	85.8		ug/L		107	70 - 117
Phenol	80.0	34.1		ug/L		43	16 - 43
Pyrene	80.0	76.9		ug/L		96	63 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	132		26 - 139
2-Fluorobiphenyl	100		45 - 107
2-Fluorophenol (Surr)	61	*	25 - 58
Nitrobenzene-d5 (Surr)	101		51 - 108
Phenol-d5 (Surr)	39		14 - 39
Terphenyl-d14 (Surr)	110		40 - 148

Lab Sample ID: LCS 460-624444/4-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	160	205		ug/L		128	38 - 146
Benzaldehyde	160	140		ug/L		88	46 - 111
Caprolactam	160	41.2		ug/L		26	10 - 43

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	105		26 - 139
2-Fluorobiphenyl	87		45 - 107
2-Fluorophenol (Surr)	45		25 - 58
Nitrobenzene-d5 (Surr)	94		51 - 108
Phenol-d5 (Surr)	30		14 - 39
Terphenyl-d14 (Surr)	108		40 - 148

Lab Sample ID: LCSD 460-624444/3-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	80.0	70.8		ug/L		88	54 - 108	9	30
1,2,4,5-Tetrachlorobenzene	80.0	77.7		ug/L		97	46 - 105	6	30
2,2'-oxybis[1-chloropropane]	80.0	40.7		ug/L		51	50 - 108	28	30
2,3,4,6-Tetrachlorophenol	80.0	68.7		ug/L		86	57 - 122	24	30
2,4,5-Trichlorophenol	80.0	69.3		ug/L		87	59 - 117	17	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-624444/3-A

Matrix: Water

Analysis Batch: 624502

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 624444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,6-Trichlorophenol	80.0	77.8		ug/L		97	62 - 120	20	30
2,4-Dichlorophenol	80.0	65.6		ug/L		82	62 - 102	21	30
2,4-Dimethylphenol	80.0	53.3		ug/L		67	61 - 95	19	30
2,4-Dinitrophenol	160	124		ug/L		77	45 - 125	7	30
2,4-Dinitrotoluene	80.0	71.6		ug/L		90	70 - 123	17	30
2,6-Dinitrotoluene	80.0	77.8		ug/L		97	68 - 121	10	30
2-Chloronaphthalene	80.0	68.8		ug/L		86	54 - 105	9	30
2-Chlorophenol	80.0	52.1	*	ug/L		65	54 - 92	33	30
2-Methylnaphthalene	80.0	63.7		ug/L		80	47 - 104	8	30
2-Methylphenol	80.0	40.5	*	ug/L		51	43 - 80	40	30
2-Nitroaniline	80.0	58.8		ug/L		73	46 - 124	26	30
2-Nitrophenol	80.0	67.5		ug/L		84	58 - 109	15	30
3,3'-Dichlorobenzidine	80.0	77.7		ug/L		97	68 - 123	3	30
3-Nitroaniline	80.0	51.8		ug/L		65	60 - 117	15	30
4,6-Dinitro-2-methylphenol	160	151		ug/L		95	59 - 132	24	30
4-Bromophenyl phenyl ether	80.0	80.3		ug/L		100	57 - 126	17	30
4-Chloro-3-methylphenol	80.0	57.2		ug/L		71	58 - 98	27	30
4-Chloroaniline	80.0	57.1		ug/L		71	51 - 108	3	30
4-Chlorophenyl phenyl ether	80.0	74.7		ug/L		93	60 - 114	14	30
4-Methylphenol	80.0	36.7	*	ug/L		46	34 - 78	40	30
4-Nitroaniline	80.0	50.4		ug/L		63	48 - 135	13	30
4-Nitrophenol	160	34.5	*	ug/L		22	11 - 47	58	30
Acenaphthene	80.0	62.8		ug/L		79	58 - 107	13	30
Acenaphthylene	80.0	63.9		ug/L		80	61 - 106	17	30
Acetophenone	80.0	64.4		ug/L		81	54 - 115	26	30
Anthracene	80.0	69.1		ug/L		86	70 - 118	19	30
Benzo[a]anthracene	80.0	72.6		ug/L		91	73 - 119	13	30
Benzo[a]pyrene	80.0	63.3		ug/L		79	76 - 125	16	30
Benzo[b]fluoranthene	80.0	65.5		ug/L		82	78 - 123	9	30
Benzo[g,h,i]perylene	80.0	102		ug/L		128	63 - 133	10	30
Benzo[k]fluoranthene	80.0	61.5		ug/L		77	71 - 126	14	30
Bis(2-chloroethoxy)methane	80.0	62.7		ug/L		78	67 - 104	12	30
Bis(2-chloroethyl)ether	80.0	56.0		ug/L		70	63 - 106	25	30
Bis(2-ethylhexyl) phthalate	80.0	87.9		ug/L		110	63 - 135	11	30
Butyl benzyl phthalate	80.0	82.6		ug/L		103	66 - 129	8	30
Carbazole	80.0	67.3		ug/L		84	68 - 121	14	30
Chrysene	80.0	75.2		ug/L		94	73 - 121	11	30
Dibenz(a,h)anthracene	80.0	102		ug/L		128	59 - 136	10	30
Dibenzofuran	80.0	66.3		ug/L		83	67 - 108	16	30
Diethyl phthalate	80.0	75.1		ug/L		94	61 - 129	15	30
Dimethyl phthalate	80.0	72.8		ug/L		91	65 - 121	18	30
Di-n-butyl phthalate	80.0	78.0		ug/L		97	64 - 130	19	30
Di-n-octyl phthalate	80.0	66.9		ug/L		84	64 - 131	12	30
Fluoranthene	80.0	69.0		ug/L		86	66 - 123	22	30
Fluorene	80.0	71.3		ug/L		89	67 - 112	11	30
Hexachlorobenzene	80.0	89.9		ug/L		112	63 - 125	21	30
Hexachlorobutadiene	80.0	87.5	*	ug/L		109	34 - 99	28	30
Hexachlorocyclopentadiene	80.0	55.0		ug/L		69	18 - 99	1	30
Hexachloroethane	80.0	70.2		ug/L		88	39 - 92	19	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-624444/3-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	80.0	102		ug/L		127	57 - 142	13	30
Isophorone	80.0	64.4		ug/L		81	55 - 105	13	30
Naphthalene	80.0	63.7		ug/L		80	51 - 98	1	30
Nitrobenzene	80.0	61.1		ug/L		76	56 - 106	30	30
N-Nitrosodi-n-propylamine	80.0	59.9	*	ug/L		75	48 - 118	31	30
N-Nitrosodiphenylamine	80.0	71.7		ug/L		90	69 - 118	17	30
Pentachlorophenol	160	143		ug/L		90	54 - 120	17	30
Phenanthrene	80.0	71.1		ug/L		89	70 - 117	19	30
Phenol	80.0	19.1	*	ug/L		24	16 - 43	56	30
Pyrene	80.0	71.5		ug/L		89	63 - 129	7	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	107		26 - 139
2-Fluorobiphenyl	92		45 - 107
2-Fluorophenol (Surr)	35		25 - 58
Nitrobenzene-d5 (Surr)	87		51 - 108
Phenol-d5 (Surr)	21		14 - 39
Terphenyl-d14 (Surr)	98		40 - 148

Lab Sample ID: LCSD 460-624444/5-A
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	160	209		ug/L		131	38 - 146	2	30
Benzaldehyde	160	154		ug/L		97	46 - 111	10	30
Caprolactam	160	45.1		ug/L		28	10 - 43	9	30

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
2,4,6-Tribromophenol (Surr)	102		26 - 139
2-Fluorobiphenyl	94		45 - 107
2-Fluorophenol (Surr)	56		25 - 58
Nitrobenzene-d5 (Surr)	98		51 - 108
Phenol-d5 (Surr)	39		14 - 39
Terphenyl-d14 (Surr)	119		40 - 148

Lab Sample ID: 460-186494-A-7-A MSD
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 624444

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	10	U	80.0	74.9		ug/L		94	54 - 108	1	30
1,2,4,5-Tetrachlorobenzene	10	U	80.0	84.7	*	ug/L		106	46 - 105	0	30
2,2'-oxybis[1-chloropropane]	10	U	80.0	46.1		ug/L		58	50 - 108	0	30
2,3,4,6-Tetrachlorophenol	10	U	80.0	76.2		ug/L		95	57 - 122	2	30
2,4,5-Trichlorophenol	10	U	80.0	74.1		ug/L		93	59 - 117	4	30
2,4,6-Trichlorophenol	10	U	80.0	80.6		ug/L		101	62 - 120	1	30
2,4-Dichlorophenol	10	U	80.0	76.5		ug/L		96	62 - 102	1	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186494-A-7-A MSD

Matrix: Water

Analysis Batch: 624502

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 624444

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits		Limit
2,4-Dimethylphenol	10	U	80.0	65.9		ug/L		82	61 - 95	8	30
2,4-Dinitrophenol	20	U	160	131		ug/L		82	45 - 125	1	30
2,4-Dinitrotoluene	2.0	U	80.0	77.9		ug/L		97	70 - 123	10	30
2,6-Dinitrotoluene	2.0	U	80.0	84.5		ug/L		106	68 - 121	7	30
2-Chloronaphthalene	10	U	80.0	74.9		ug/L		94	54 - 105	3	30
2-Chlorophenol	10	U *	80.0	61.2		ug/L		77	54 - 92	2	30
2-Methylnaphthalene	10	U	80.0	73.5		ug/L		92	47 - 104	2	30
2-Methylphenol	10	U *	80.0	49.2		ug/L		62	43 - 80	5	30
2-Nitroaniline	10	U	80.0	74.8		ug/L		94	46 - 124	1	30
2-Nitrophenol	10	U	80.0	69.3		ug/L		87	58 - 109	8	30
3,3'-Dichlorobenzidine	10	U	80.0	60.7		ug/L		76	68 - 123	25	30
3-Nitroaniline	10	U	80.0	52.4		ug/L		65	60 - 117	5	30
4,6-Dinitro-2-methylphenol	20	U	160	175		ug/L		109	59 - 132	3	30
4-Bromophenyl phenyl ether	10	U	80.0	92.1		ug/L		115	57 - 126	8	30
4-Chloro-3-methylphenol	10	U	80.0	69.9		ug/L		87	58 - 98	1	30
4-Chloroaniline	10	U	80.0	43.0	*	ug/L		54	51 - 108	35	30
4-Chlorophenyl phenyl ether	10	U	80.0	83.7		ug/L		105	60 - 114	1	30
4-Methylphenol	10	U *	80.0	10	U *	ug/L		0	34 - 78	NC	30
4-Nitroaniline	10	U	80.0	54.9		ug/L		69	48 - 135	9	30
4-Nitrophenol	20	U *	160	47.5		ug/L		30	11 - 47	3	30
Acenaphthene	10	U	80.0	69.2		ug/L		86	58 - 107	4	30
Acenaphthylene	10	U	80.0	74.2		ug/L		93	61 - 106	0	30
Acetophenone	10	U	80.0	75.8		ug/L		95	54 - 115	0	30
Anthracene	10	U	80.0	81.6		ug/L		102	70 - 118	1	30
Atrazine	2.0	U	160	202	E	ug/L		126	38 - 146	13	30
Benzaldehyde	10	U	160	140		ug/L		87	46 - 111	16	30
Benzo[a]anthracene	1.0	U	80.0	82.9		ug/L		104	73 - 119	9	30
Benzo[a]pyrene	1.0	U	80.0	76.7		ug/L		96	76 - 125	5	30
Benzo[b]fluoranthene	2.0	U	80.0	76.7		ug/L		96	78 - 123	5	30
Benzo[g,h,i]perylene	10	U *	80.0	121	*	ug/L		151	63 - 133	5	30
Benzo[k]fluoranthene	1.0	U	80.0	75.9		ug/L		95	71 - 126	6	30
Bis(2-chloroethoxy)methane	10	U	80.0	69.9		ug/L		87	67 - 104	1	30
Bis(2-chloroethyl)ether	1.0	U	80.0	64.8		ug/L		81	63 - 106	1	30
Bis(2-ethylhexyl) phthalate	2.0	U	80.0	104		ug/L		130	63 - 135	13	30
Butyl benzyl phthalate	10	U	80.0	97.2		ug/L		122	66 - 129	9	30
Caprolactam	10	U	160	34.7	*	ug/L		22	10 - 43	35	30
Carbazole	10	U	80.0	74.9		ug/L		94	68 - 121	3	30
Chrysene	2.0	U	80.0	90.6		ug/L		113	73 - 121	12	30
Dibenz(a,h)anthracene	1.0	U *	80.0	120	*	ug/L		150	59 - 136	5	30
Dibenzofuran	10	U	80.0	75.5		ug/L		94	67 - 108	0	30
Diethyl phthalate	10	U	80.0	81.3		ug/L		102	61 - 129	1	30
Dimethyl phthalate	10	U	80.0	80.5		ug/L		101	65 - 121	2	30
Di-n-butyl phthalate	10	U	80.0	91.8		ug/L		115	64 - 130	3	30
Di-n-octyl phthalate	10	U	80.0	80.3		ug/L		100	64 - 131	6	30
Fluoranthene	10	U	80.0	82.0		ug/L		103	66 - 123	3	30
Fluorene	10	U	80.0	78.7		ug/L		98	67 - 112	3	30
Hexachlorobenzene	1.0	U *	80.0	105	*	ug/L		131	63 - 125	9	30
Hexachlorobutadiene	1.0	U *	80.0	84.3	*	ug/L		105	34 - 99	2	30
Hexachlorocyclopentadiene	10	U	80.0	66.3		ug/L		83	18 - 99	8	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186494-A-7-A MSD

Matrix: Water

Analysis Batch: 624502

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 624444

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier						
Hexachloroethane	2.0	U	80.0	73.6		ug/L		92	39 - 92	14	30
Indeno[1,2,3-cd]pyrene	2.0	U *	80.0	124	*	ug/L		155	57 - 142	7	30
Isophorone	10	U	80.0	73.9		ug/L		92	55 - 105	2	30
Naphthalene	10	U	80.0	70.2		ug/L		88	51 - 98	3	30
Nitrobenzene	1.0	U	80.0	74.2		ug/L		93	56 - 106	8	30
N-Nitrosodi-n-propylamine	1.0	U *	80.0	69.9		ug/L		87	48 - 118	9	30
N-Nitrosodiphenylamine	10	U	80.0	80.1		ug/L		100	69 - 118	3	30
Pentachlorophenol	20	U	160	168		ug/L		105	54 - 120	4	30
Phenanthrene	10	U	80.0	81.9		ug/L		102	70 - 117	5	30
Phenol	10	U *	80.0	22.8		ug/L		29	16 - 43	0	30
Pyrene	10	U	80.0	82.9		ug/L		104	63 - 129	12	30

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	122		26 - 139
2-Fluorobiphenyl	98		45 - 107
2-Fluorophenol (Surr)	45		25 - 58
Nitrobenzene-d5 (Surr)	100		51 - 108
Phenol-d5 (Surr)	28		14 - 39
Terphenyl-d14 (Surr)	108		40 - 148

Lab Sample ID: 460-186494-C-7-A MS

Matrix: Water

Analysis Batch: 624502

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 624444

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
1,1'-Biphenyl	10	U	80.0	75.8		ug/L		95	54 - 108	
1,2,4,5-Tetrachlorobenzene	10	U	80.0	84.3		ug/L		105	46 - 105	
2,2'-oxybis[1-chloropropane]	10	U	80.0	46.2		ug/L		58	50 - 108	
2,3,4,6-Tetrachlorophenol	10	U	80.0	77.5		ug/L		97	57 - 122	
2,4,5-Trichlorophenol	10	U	80.0	77.0		ug/L		96	59 - 117	
2,4,6-Trichlorophenol	10	U	80.0	81.3		ug/L		102	62 - 120	
2,4-Dichlorophenol	10	U	80.0	77.2		ug/L		97	62 - 102	
2,4-Dimethylphenol	10	U	80.0	61.0		ug/L		76	61 - 95	
2,4-Dinitrophenol	20	U	160	132		ug/L		83	45 - 125	
2,4-Dinitrotoluene	2.0	U	80.0	86.1		ug/L		108	70 - 123	
2,6-Dinitrotoluene	2.0	U	80.0	78.9		ug/L		99	68 - 121	
2-Chloronaphthalene	10	U	80.0	77.4		ug/L		97	54 - 105	
2-Chlorophenol	10	U *	80.0	59.8		ug/L		75	54 - 92	
2-Methylnaphthalene	10	U	80.0	72.2		ug/L		90	47 - 104	
2-Methylphenol	10	U *	80.0	46.8		ug/L		59	43 - 80	
2-Nitroaniline	10	U	80.0	75.4		ug/L		94	46 - 124	
2-Nitrophenol	10	U	80.0	74.8		ug/L		93	58 - 109	
3,3'-Dichlorobenzidine	10	U	80.0	77.8		ug/L		97	68 - 123	
3-Nitroaniline	10	U	80.0	55.0		ug/L		69	60 - 117	
4,6-Dinitro-2-methylphenol	20	U	160	170		ug/L		106	59 - 132	
4-Bromophenyl phenyl ether	10	U	80.0	85.3		ug/L		107	57 - 126	
4-Chloro-3-methylphenol	10	U	80.0	70.7		ug/L		88	58 - 98	
4-Chloroaniline	10	U	80.0	61.0		ug/L		76	51 - 108	

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186494-C-7-A MS

Matrix: Water

Analysis Batch: 624502

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 624444

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier		Result	Qualifier					
4-Chlorophenyl phenyl ether	10	U	80.0	84.7		ug/L		106		60 - 114
4-Methylphenol	10	U *	80.0	43.4		ug/L		54		34 - 78
4-Nitroaniline	10	U	80.0	60.1		ug/L		75		48 - 135
4-Nitrophenol	20	U *	160	48.9		ug/L		31		11 - 47
Acenaphthene	10	U	80.0	72.2		ug/L		90		58 - 107
Acenaphthylene	10	U	80.0	74.2		ug/L		93		61 - 106
Acetophenone	10	U	80.0	75.6		ug/L		94		54 - 115
Anthracene	10	U	80.0	80.5		ug/L		101		70 - 118
Atrazine	2.0	U	160	176		ug/L		110		38 - 146
Benzaldehyde	10	U	160	119		ug/L		75		46 - 111
Benzo[a]anthracene	1.0	U	80.0	76.0		ug/L		95		73 - 119
Benzo[a]pyrene	1.0	U	80.0	73.1		ug/L		91		76 - 125
Benzo[b]fluoranthene	2.0	U	80.0	72.8		ug/L		91		78 - 123
Benzo[g,h,i]perylene	10	U *	80.0	115	*	ug/L		144		63 - 133
Benzo[k]fluoranthene	1.0	U	80.0	71.4		ug/L		89		71 - 126
Bis(2-chloroethoxy)methane	10	U	80.0	69.0		ug/L		86		67 - 104
Bis(2-chloroethyl)ether	1.0	U	80.0	64.0		ug/L		80		63 - 106
Bis(2-ethylhexyl) phthalate	2.0	U	80.0	91.5		ug/L		114		63 - 135
Butyl benzyl phthalate	10	U	80.0	88.5		ug/L		111		66 - 129
Caprolactam	10	U	160	24.3		ug/L		15		10 - 43
Carbazole	10	U	80.0	72.5		ug/L		91		68 - 121
Chrysene	2.0	U	80.0	80.0		ug/L		100		73 - 121
Dibenz(a,h)anthracene	1.0	U *	80.0	114	*	ug/L		142		59 - 136
Dibenzofuran	10	U	80.0	75.7		ug/L		95		67 - 108
Diethyl phthalate	10	U	80.0	81.9		ug/L		102		61 - 129
Dimethyl phthalate	10	U	80.0	78.7		ug/L		98		65 - 121
Di-n-butyl phthalate	10	U	80.0	89.0		ug/L		111		64 - 130
Di-n-octyl phthalate	10	U	80.0	75.8		ug/L		95		64 - 131
Fluoranthene	10	U	80.0	79.5		ug/L		99		66 - 123
Fluorene	10	U	80.0	76.4		ug/L		96		67 - 112
Hexachlorobenzene	1.0	U *	80.0	96.2		ug/L		120		63 - 125
Hexachlorobutadiene	1.0	U *	80.0	82.8	*	ug/L		104		34 - 99
Hexachlorocyclopentadiene	10	U	80.0	71.9		ug/L		90		18 - 99
Hexachloroethane	2.0	U	80.0	64.2		ug/L		80		39 - 92
Indeno[1,2,3-cd]pyrene	2.0	U *	80.0	115	*	ug/L		144		57 - 142
Isophorone	10	U	80.0	72.3		ug/L		90		55 - 105
Naphthalene	10	U	80.0	68.3		ug/L		85		51 - 98
Nitrobenzene	1.0	U	80.0	68.5		ug/L		86		56 - 106
N-Nitrosodi-n-propylamine	1.0	U *	80.0	64.1		ug/L		80		48 - 118
N-Nitrosodiphenylamine	10	U	80.0	77.7		ug/L		97		69 - 118
Pentachlorophenol	20	U	160	161		ug/L		101		54 - 120
Phenanthrene	10	U	80.0	77.7		ug/L		97		70 - 117
Phenol	10	U *	80.0	22.9		ug/L		29		16 - 43
Pyrene	10	U	80.0	73.2		ug/L		92		63 - 129

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	128		26 - 139
2-Fluorobiphenyl	104		45 - 107

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-186494-C-7-A MS
Matrix: Water
Analysis Batch: 624502

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 624444

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	48		25 - 58
Nitrobenzene-d5 (Surr)	102		51 - 108
Phenol-d5 (Surr)	26		14 - 39
Terphenyl-d14 (Surr)	101		40 - 148

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 460-624379/1-A
Matrix: Water
Analysis Batch: 624459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624379

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		07/13/19 16:45	07/14/19 12:36	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		07/13/19 16:45	07/14/19 12:36	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 12:36	1
Aldrin	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 12:36	1
alpha-BHC	0.020	U	0.020	0.0070	ug/L		07/13/19 16:45	07/14/19 12:36	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 12:36	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		07/13/19 16:45	07/14/19 12:36	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		07/13/19 16:45	07/14/19 12:36	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 12:36	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		07/13/19 16:45	07/14/19 12:36	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 12:36	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		07/13/19 16:45	07/14/19 12:36	1
Endrin	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 12:36	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		07/13/19 16:45	07/14/19 12:36	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		07/13/19 16:45	07/14/19 12:36	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		07/13/19 16:45	07/14/19 12:36	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		07/13/19 16:45	07/14/19 12:36	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		07/13/19 16:45	07/14/19 12:36	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		07/13/19 16:45	07/14/19 12:36	1
Toxaphene	0.50	U	0.50	0.11	ug/L		07/13/19 16:45	07/14/19 12:36	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	59		10 - 150	07/13/19 16:45	07/14/19 12:36	1
DCB Decachlorobiphenyl	51		10 - 150	07/13/19 16:45	07/14/19 12:36	1
Tetrachloro-m-xylene	56		12 - 136	07/13/19 16:45	07/14/19 12:36	1
Tetrachloro-m-xylene	53		12 - 136	07/13/19 16:45	07/14/19 12:36	1

Lab Sample ID: LCS 460-624379/2-A
Matrix: Water
Analysis Batch: 624459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.800	0.952		ug/L		119	58 - 136
4,4'-DDE	0.800	0.901		ug/L		113	56 - 132
4,4'-DDE	0.800	0.910		ug/L		114	56 - 132

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-624379/2-A
Matrix: Water
Analysis Batch: 624459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624379

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	0.800	0.809		ug/L		101	56 - 134
4,4'-DDT	0.800	0.878		ug/L		110	56 - 134
Aldrin	0.800	0.748		ug/L		93	52 - 125
Aldrin	0.800	0.821		ug/L		103	52 - 125
alpha-BHC	0.800	0.827		ug/L		103	57 - 133
alpha-BHC	0.800	0.881		ug/L		110	57 - 133
beta-BHC	0.800	0.915		ug/L		114	61 - 134
beta-BHC	0.800	0.932		ug/L		116	61 - 134
delta-BHC	0.800	0.539		ug/L		67	56 - 130
delta-BHC	0.800	0.571		ug/L		71	56 - 130
Dieldrin	0.800	0.899		ug/L		112	61 - 135
Dieldrin	0.800	0.977		ug/L		122	61 - 135
Endosulfan I	0.800	0.942		ug/L		118	61 - 134
Endosulfan I	0.800	1.00		ug/L		125	61 - 134
Endosulfan II	0.800	0.912		ug/L		114	61 - 133
Endosulfan II	0.800	0.908		ug/L		113	61 - 133
Endosulfan sulfate	0.800	0.935		ug/L		117	59 - 133
Endosulfan sulfate	0.800	0.998		ug/L		125	59 - 133
Endrin	0.800	0.986		ug/L		123	60 - 135
Endrin	0.800	1.06		ug/L		132	60 - 135
Endrin aldehyde	0.800	0.872		ug/L		109	59 - 130
Endrin aldehyde	0.800	0.856		ug/L		107	59 - 130
Endrin ketone	0.800	0.827		ug/L		103	60 - 137
Endrin ketone	0.800	0.926		ug/L		116	60 - 137
gamma-BHC (Lindane)	0.800	0.828		ug/L		103	59 - 131
gamma-BHC (Lindane)	0.800	0.897		ug/L		112	59 - 131
Heptachlor	0.800	0.748		ug/L		93	54 - 126
Heptachlor	0.800	0.797		ug/L		100	54 - 126
Heptachlor epoxide	0.800	0.929		ug/L		116	60 - 130
Heptachlor epoxide	0.800	0.936		ug/L		117	60 - 130
Methoxychlor	0.800	0.897		ug/L		112	57 - 133
Methoxychlor	0.800	0.830		ug/L		104	57 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	49		10 - 150
DCB Decachlorobiphenyl	44		10 - 150
Tetrachloro-m-xylene	61		12 - 136
Tetrachloro-m-xylene	71		12 - 136

Lab Sample ID: LCSD 460-624379/3-A
Matrix: Water
Analysis Batch: 624459

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.800	0.803		ug/L		100	58 - 136	6	30
4,4'-DDD	0.800	0.949		ug/L		119	58 - 136	0	30
4,4'-DDE	0.800	0.855		ug/L		107	56 - 132	5	30
4,4'-DDE	0.800	0.894		ug/L		112	56 - 132	2	30

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-624379/3-A

Matrix: Water

Analysis Batch: 624459

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 624379

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDT	0.800	0.781		ug/L		98	56 - 134	4	30
4,4'-DDT	0.800	0.886		ug/L		111	56 - 134	1	30
Aldrin	0.800	0.713		ug/L		89	52 - 125	5	30
Aldrin	0.800	0.794		ug/L		99	52 - 125	3	30
alpha-BHC	0.800	0.790		ug/L		99	57 - 133	5	30
alpha-BHC	0.800	0.856		ug/L		107	57 - 133	3	30
beta-BHC	0.800	0.846		ug/L		106	61 - 134	8	30
beta-BHC	0.800	0.886		ug/L		111	61 - 134	5	30
delta-BHC	0.800	0.504		ug/L		63	56 - 130	7	30
delta-BHC	0.800	0.542		ug/L		68	56 - 130	5	30
Dieldrin	0.800	0.856		ug/L		107	61 - 135	5	30
Dieldrin	0.800	0.969		ug/L		121	61 - 135	1	30
Endosulfan I	0.800	0.900		ug/L		113	61 - 134	4	30
Endosulfan I	0.800	0.992		ug/L		124	61 - 134	1	30
Endosulfan II	0.800	0.853		ug/L		107	61 - 133	6	30
Endosulfan II	0.800	0.916		ug/L		115	61 - 133	0	30
Endosulfan sulfate	0.800	0.926		ug/L		116	59 - 133	1	30
Endosulfan sulfate	0.800	1.03		ug/L		128	59 - 133	3	30
Endrin	0.800	0.951		ug/L		119	60 - 135	4	30
Endrin	0.800	1.06		ug/L		132	60 - 135	0	30
Endrin aldehyde	0.800	0.863		ug/L		108	59 - 130	1	30
Endrin aldehyde	0.800	0.895		ug/L		112	59 - 130	3	30
Endrin ketone	0.800	0.894		ug/L		112	60 - 137	8	30
Endrin ketone	0.800	0.954		ug/L		119	60 - 137	3	30
gamma-BHC (Lindane)	0.800	0.786		ug/L		98	59 - 131	5	30
gamma-BHC (Lindane)	0.800	0.859		ug/L		107	59 - 131	4	30
Heptachlor	0.800	0.705		ug/L		88	54 - 126	6	30
Heptachlor	0.800	0.762		ug/L		95	54 - 126	4	30
Heptachlor epoxide	0.800	0.893		ug/L		112	60 - 130	4	30
Heptachlor epoxide	0.800	0.920		ug/L		115	60 - 130	2	30
Methoxychlor	0.800	0.889		ug/L		111	57 - 133	1	30
Methoxychlor	0.800	0.854		ug/L		107	57 - 133	3	30

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl	49		10 - 150
DCB Decachlorobiphenyl	43		10 - 150
Tetrachloro-m-xylene	58		12 - 136
Tetrachloro-m-xylene	68		12 - 136

Lab Sample ID: MB 460-624485/1-A

Matrix: Water

Analysis Batch: 624557

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 624485

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.020	U	0.020	0.0060	ug/L		07/14/19 16:25	07/15/19 09:44	1
4,4'-DDE	0.020	U	0.020	0.0020	ug/L		07/14/19 16:25	07/15/19 09:44	1
4,4'-DDT	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 09:44	1
Aldrin	0.020	U	0.020	0.0030	ug/L		07/14/19 16:25	07/15/19 09:44	1

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 460-624485/1-A
Matrix: Water
Analysis Batch: 624557

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624485

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	0.020	U	0.020	0.0070	ug/L		07/14/19 16:25	07/15/19 09:44	1
beta-BHC	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 09:44	1
Chlordane (technical)	0.50	U	0.50	0.055	ug/L		07/14/19 16:25	07/15/19 09:44	1
delta-BHC	0.020	U	0.020	0.0050	ug/L		07/14/19 16:25	07/15/19 09:44	1
Dieldrin	0.020	U	0.020	0.0030	ug/L		07/14/19 16:25	07/15/19 09:44	1
Endosulfan I	0.020	U	0.020	0.0020	ug/L		07/14/19 16:25	07/15/19 09:44	1
Endosulfan II	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 09:44	1
Endosulfan sulfate	0.020	U	0.020	0.0060	ug/L		07/14/19 16:25	07/15/19 09:44	1
Endrin	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 09:44	1
Endrin aldehyde	0.020	U	0.020	0.0080	ug/L		07/14/19 16:25	07/15/19 09:44	1
Endrin ketone	0.020	U	0.020	0.0080	ug/L		07/14/19 16:25	07/15/19 09:44	1
gamma-BHC (Lindane)	0.020	U	0.020	0.012	ug/L		07/14/19 16:25	07/15/19 09:44	1
Heptachlor	0.020	U	0.020	0.0030	ug/L		07/14/19 16:25	07/15/19 09:44	1
Heptachlor epoxide	0.020	U	0.020	0.0050	ug/L		07/14/19 16:25	07/15/19 09:44	1
Methoxychlor	0.020	U	0.020	0.0040	ug/L		07/14/19 16:25	07/15/19 09:44	1
Toxaphene	0.50	U	0.50	0.11	ug/L		07/14/19 16:25	07/15/19 09:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	98		10 - 150	07/14/19 16:25	07/15/19 09:44	1
DCB Decachlorobiphenyl	100		10 - 150	07/14/19 16:25	07/15/19 09:44	1
Tetrachloro-m-xylene	89		12 - 136	07/14/19 16:25	07/15/19 09:44	1
Tetrachloro-m-xylene	87		12 - 136	07/14/19 16:25	07/15/19 09:44	1

Lab Sample ID: LCS 460-624485/2-A
Matrix: Water
Analysis Batch: 624557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	0.800	0.947		ug/L		118	58 - 136
4,4'-DDD	0.800	0.872		ug/L		109	58 - 136
4,4'-DDE	0.800	1.00		ug/L		125	56 - 132
4,4'-DDE	0.800	0.939		ug/L		117	56 - 132
4,4'-DDT	0.800	0.896		ug/L		112	56 - 134
4,4'-DDT	0.800	0.872		ug/L		109	56 - 134
Aldrin	0.800	0.931		ug/L		116	52 - 125
Aldrin	0.800	0.893		ug/L		112	52 - 125
alpha-BHC	0.800	0.898		ug/L		112	57 - 133
alpha-BHC	0.800	0.853		ug/L		107	57 - 133
beta-BHC	0.800	0.914		ug/L		114	61 - 134
beta-BHC	0.800	0.893		ug/L		112	61 - 134
delta-BHC	0.800	0.564		ug/L		71	56 - 130
delta-BHC	0.800	0.539		ug/L		67	56 - 130
Dieldrin	0.800	0.958		ug/L		120	61 - 135
Dieldrin	0.800	0.888		ug/L		111	61 - 135
Endosulfan I	0.800	0.927		ug/L		116	61 - 134
Endosulfan I	0.800	0.885		ug/L		111	61 - 134
Endosulfan II	0.800	0.912		ug/L		114	61 - 133
Endosulfan II	0.800	0.838		ug/L		105	61 - 133

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 460-624485/2-A
Matrix: Water
Analysis Batch: 624557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624485

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	0.800	0.846		ug/L		106	59 - 133
Endosulfan sulfate	0.800	0.806		ug/L		101	59 - 133
Endrin	0.800	0.935		ug/L		117	60 - 135
Endrin	0.800	0.881		ug/L		110	60 - 135
Endrin aldehyde	0.800	0.910		ug/L		114	59 - 130
Endrin aldehyde	0.800	0.855		ug/L		107	59 - 130
Endrin ketone	0.800	0.893		ug/L		112	60 - 137
Endrin ketone	0.800	0.883		ug/L		110	60 - 137
gamma-BHC (Lindane)	0.800	0.899		ug/L		112	59 - 131
gamma-BHC (Lindane)	0.800	0.849		ug/L		106	59 - 131
Heptachlor	0.800	0.855		ug/L		107	54 - 126
Heptachlor	0.800	0.884		ug/L		110	54 - 126
Heptachlor epoxide	0.800	0.928		ug/L		116	60 - 130
Heptachlor epoxide	0.800	0.878		ug/L		110	60 - 130
Methoxychlor	0.800	0.873		ug/L		109	57 - 133
Methoxychlor	0.800	0.874		ug/L		109	57 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	87		10 - 150
DCB Decachlorobiphenyl	101		10 - 150
Tetrachloro-m-xylene	83		12 - 136
Tetrachloro-m-xylene	92		12 - 136

Lab Sample ID: LCSD 460-624485/3-A
Matrix: Water
Analysis Batch: 624557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	0.800	0.951		ug/L		119	58 - 136	0	30
4,4'-DDD	0.800	0.876		ug/L		110	58 - 136	0	30
4,4'-DDE	0.800	1.00		ug/L		125	56 - 132	0	30
4,4'-DDE	0.800	0.917		ug/L		115	56 - 132	2	30
4,4'-DDT	0.800	0.915		ug/L		114	56 - 134	2	30
4,4'-DDT	0.800	0.878		ug/L		110	56 - 134	1	30
Aldrin	0.800	0.922		ug/L		115	52 - 125	1	30
Aldrin	0.800	0.879		ug/L		110	52 - 125	2	30
alpha-BHC	0.800	0.894		ug/L		112	57 - 133	0	30
alpha-BHC	0.800	0.844		ug/L		106	57 - 133	1	30
beta-BHC	0.800	0.904		ug/L		113	61 - 134	1	30
beta-BHC	0.800	0.877		ug/L		110	61 - 134	2	30
delta-BHC	0.800	0.560		ug/L		70	56 - 130	1	30
delta-BHC	0.800	0.530		ug/L		66	56 - 130	2	30
Dieldrin	0.800	0.956		ug/L		119	61 - 135	0	30
Dieldrin	0.800	0.879		ug/L		110	61 - 135	1	30
Endosulfan I	0.800	0.919		ug/L		115	61 - 134	1	30
Endosulfan I	0.800	0.871		ug/L		109	61 - 134	2	30
Endosulfan II	0.800	0.909		ug/L		114	61 - 133	0	30
Endosulfan II	0.800	0.844		ug/L		106	61 - 133	1	30

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 460-624485/3-A
Matrix: Water
Analysis Batch: 624557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624485

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endosulfan sulfate	0.800	0.852		ug/L		106	59 - 133	1	30
Endosulfan sulfate	0.800	0.799		ug/L		100	59 - 133	1	30
Endrin	0.800	0.932		ug/L		117	60 - 135	0	30
Endrin	0.800	0.877		ug/L		110	60 - 135	0	30
Endrin aldehyde	0.800	0.915		ug/L		114	59 - 130	1	30
Endrin aldehyde	0.800	0.853		ug/L		107	59 - 130	0	30
Endrin ketone	0.800	0.917		ug/L		115	60 - 137	3	30
Endrin ketone	0.800	0.880		ug/L		110	60 - 137	0	30
gamma-BHC (Lindane)	0.800	0.895		ug/L		112	59 - 131	1	30
gamma-BHC (Lindane)	0.800	0.840		ug/L		105	59 - 131	1	30
Heptachlor	0.800	0.859		ug/L		107	54 - 126	0	30
Heptachlor	0.800	0.875		ug/L		109	54 - 126	1	30
Heptachlor epoxide	0.800	0.918		ug/L		115	60 - 130	1	30
Heptachlor epoxide	0.800	0.864		ug/L		108	60 - 130	2	30
Methoxychlor	0.800	0.904		ug/L		113	57 - 133	3	30
Methoxychlor	0.800	0.871		ug/L		109	57 - 133	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	88		10 - 150
DCB Decachlorobiphenyl	96		10 - 150
Tetrachloro-m-xylene	82		12 - 136
Tetrachloro-m-xylene	80		12 - 136

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 460-624380/1-A
Matrix: Water
Analysis Batch: 624453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624380

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 09:55	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		07/13/19 16:54	07/14/19 09:55	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		07/13/19 16:54	07/14/19 09:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	107		10 - 150	07/13/19 16:54	07/14/19 09:55	1
DCB Decachlorobiphenyl	116		10 - 150	07/13/19 16:54	07/14/19 09:55	1

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-624380/2-A
Matrix: Water
Analysis Batch: 624453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624380

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor 1016	4.00	4.69		ug/L		117	78 - 150
Aroclor 1016	4.00	4.75		ug/L		119	78 - 150
Aroclor 1260	4.00	5.53		ug/L		138	80 - 150
Aroclor 1260	4.00	5.55		ug/L		139	80 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	113		10 - 150
DCB Decachlorobiphenyl	114		10 - 150

Lab Sample ID: LCSD 460-624380/3-A
Matrix: Water
Analysis Batch: 624453

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624380

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	4.00	4.25		ug/L		106	78 - 150	10	30
Aroclor 1016	4.00	4.77		ug/L		119	78 - 150	0	30
Aroclor 1260	4.00	5.57		ug/L		139	80 - 150	0	30
Aroclor 1260	4.00	5.55		ug/L		139	80 - 150	0	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	111		10 - 150
DCB Decachlorobiphenyl	117		10 - 150

Lab Sample ID: MB 460-624486/1-A
Matrix: Water
Analysis Batch: 624545

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1221	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1232	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1242	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1248	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1254	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1260	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor-1262	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 12:38	1
Aroclor 1268	0.40	U	0.40	0.11	ug/L		07/14/19 16:29	07/15/19 12:38	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.12	ug/L		07/14/19 16:29	07/15/19 12:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	111		10 - 150	07/14/19 16:29	07/15/19 12:38	1
DCB Decachlorobiphenyl	116		10 - 150	07/14/19 16:29	07/15/19 12:38	1

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 460-624486/2-A
Matrix: Water
Analysis Batch: 624545

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aroclor 1016	4.00	4.28		ug/L		107	78 - 150
Aroclor 1016	4.00	5.10		ug/L		127	78 - 150
Aroclor 1260	4.00	5.03		ug/L		126	80 - 150
Aroclor 1260	4.00	5.79		ug/L		145	80 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	99		10 - 150
DCB Decachlorobiphenyl	112		10 - 150

Lab Sample ID: LCSD 460-624486/3-A
Matrix: Water
Analysis Batch: 624545

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 624486

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	4.00	4.40		ug/L		110	78 - 150	15	30
Aroclor 1016	4.00	3.42		ug/L		86	78 - 150	22	30
Aroclor 1260	4.00	5.24		ug/L		131	80 - 150	10	30
Aroclor 1260	4.00	4.09		ug/L		102	80 - 150	21	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	109		10 - 150
DCB Decachlorobiphenyl	83		10 - 150

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 460-623976/1-A ^2
Matrix: Water
Analysis Batch: 624161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623976

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	40.0	U	40.0	18.8	ug/L		07/11/19 19:10	07/12/19 11:06	2
Antimony	2.0	U	2.0	0.40	ug/L		07/11/19 19:10	07/12/19 11:06	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/11/19 19:10	07/12/19 11:06	2
Barium	4.0	U	4.0	1.2	ug/L		07/11/19 19:10	07/12/19 11:06	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/11/19 19:10	07/12/19 11:06	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/11/19 19:10	07/12/19 11:06	2
Calcium	200	U	200	98.8	ug/L		07/11/19 19:10	07/12/19 11:06	2
Chromium	4.0	U	4.0	2.3	ug/L		07/11/19 19:10	07/12/19 11:06	2
Cobalt	4.0	U	4.0	1.6	ug/L		07/11/19 19:10	07/12/19 11:06	2
Copper	4.0	U	4.0	2.0	ug/L		07/11/19 19:10	07/12/19 11:06	2
Iron	120	U	120	51.1	ug/L		07/11/19 19:10	07/12/19 11:06	2
Lead	1.2	U	1.2	0.55	ug/L		07/11/19 19:10	07/12/19 11:06	2
Magnesium	200	U	200	73.7	ug/L		07/11/19 19:10	07/12/19 11:06	2
Manganese	8.0	U	8.0	2.9	ug/L		07/11/19 19:10	07/12/19 11:06	2
Nickel	4.0	U	4.0	2.4	ug/L		07/11/19 19:10	07/12/19 11:06	2
Potassium	200	U	200	86.7	ug/L		07/11/19 19:10	07/12/19 11:06	2
Selenium	10.0	U	10.0	5.4	ug/L		07/11/19 19:10	07/12/19 11:06	2
Silver	2.0	U	2.0	0.59	ug/L		07/11/19 19:10	07/12/19 11:06	2

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-623976/1-A ^2
Matrix: Water
Analysis Batch: 624161

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623976

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	200	U	200	128	ug/L		07/11/19 19:10	07/12/19 11:06	2
Thallium	0.80	U	0.80	0.16	ug/L		07/11/19 19:10	07/12/19 11:06	2
Vanadium	4.0	U	4.0	1.1	ug/L		07/11/19 19:10	07/12/19 11:06	2
Zinc	16.0	U	16.0	11.1	ug/L		07/11/19 19:10	07/12/19 11:06	2

Lab Sample ID: LCS 460-623976/2-A ^2
Matrix: Water
Analysis Batch: 624161

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623976

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	25.0	27.23		ug/L		109	80 - 120
Arsenic	50.0	53.14		ug/L		106	80 - 120
Barium	50.0	52.67		ug/L		105	80 - 120
Beryllium	25.0	23.83		ug/L		95	80 - 120
Cadmium	25.0	26.21		ug/L		105	80 - 120
Calcium	2500	2528		ug/L		101	80 - 120
Chromium	50.0	55.67		ug/L		111	80 - 120
Cobalt	25.0	27.14		ug/L		109	80 - 120
Copper	50.0	56.20		ug/L		112	80 - 120
Iron	2500	2736		ug/L		109	80 - 120
Lead	25.0	27.45		ug/L		110	80 - 120
Magnesium	2500	2674		ug/L		107	80 - 120
Manganese	250	269.5		ug/L		108	80 - 120
Nickel	50.0	56.07		ug/L		112	80 - 120
Potassium	2500	2565		ug/L		103	80 - 120
Selenium	50.0	53.74		ug/L		107	80 - 120
Silver	25.0	20.01		ug/L		80	80 - 120
Sodium	2500	2768		ug/L		111	80 - 120
Thallium	20.0	21.10		ug/L		105	80 - 120
Vanadium	50.0	53.52		ug/L		107	80 - 120
Zinc	250	262.5		ug/L		105	80 - 120

Lab Sample ID: 460-185931-M-1-A MS ^2
Matrix: Water
Analysis Batch: 624161

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	2.0	U	25.0	28.15		ug/L		113	75 - 125
Arsenic	2.0	U	50.0	52.77		ug/L		106	75 - 125
Barium	99.2		50.0	152.0		ug/L		106	75 - 125
Beryllium	0.80	U	25.0	24.08		ug/L		96	75 - 125
Cadmium	2.0	U	25.0	27.15		ug/L		109	75 - 125
Calcium	70600		2500	72240	4	ug/L		66	75 - 125
Chromium	4.0	U	50.0	56.11		ug/L		112	75 - 125
Cobalt	4.0	U	25.0	26.90		ug/L		108	75 - 125
Copper	2.9	J	50.0	58.17		ug/L		111	75 - 125
Iron	560		2500	3254		ug/L		108	75 - 125

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-185931-M-1-A MS ^2
Matrix: Water
Analysis Batch: 624161

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623976

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Lead	2.0		25.0	29.04		ug/L		108	75 - 125
Magnesium	26200		2500	28600	4	ug/L		96	75 - 125
Manganese	112		250	370.0		ug/L		103	75 - 125
Nickel	4.0	U	50.0	56.09		ug/L		112	75 - 125
Potassium	4460		2500	6843		ug/L		95	75 - 125
Selenium	10.0	U	50.0	53.84		ug/L		108	75 - 125
Silver	2.0	U	25.0	19.55		ug/L		78	75 - 125
Sodium	102000		2500	103400	4	ug/L		69	75 - 125
Thallium	0.80	U	20.0	21.43		ug/L		107	75 - 125
Vanadium	1.4	J	50.0	55.13		ug/L		107	75 - 125
Zinc	16.0	U	250	265.8		ug/L		106	75 - 125

Lab Sample ID: 460-185931-A-1-A DU ^2
Matrix: Water
Analysis Batch: 624161

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 623976

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Aluminum	206		195.2		ug/L		5	20
Antimony	2.0	U	0.420	J	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	99.2		96.93		ug/L		2	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	70600		70430		ug/L		0.2	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	4.0	U	4.0	U	ug/L		NC	20
Copper	2.9	J	2.83	J	ug/L		2	20
Iron	560		541.0		ug/L		3	20
Lead	2.0		1.91		ug/L		2	20
Magnesium	26200		26100		ug/L		0.4	20
Manganese	112		109.7		ug/L		2	20
Nickel	4.0	U	4.0	U	ug/L		NC	20
Potassium	4460		4417		ug/L		0.9	20
Selenium	10.0	U	10.0	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	102000		101300		ug/L		0.3	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	1.4	J	1.39	J	ug/L		3	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Lab Sample ID: MB 460-623987/1-A
Matrix: Water
Analysis Batch: 624141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623987

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	9.4	ug/L		07/11/19 22:11	07/12/19 00:03	1
Antimony	1.0	U	1.0	0.20	ug/L		07/11/19 22:11	07/12/19 00:03	1
Arsenic	1.0	U	1.0	0.37	ug/L		07/11/19 22:11	07/12/19 00:03	1
Barium	2.0	U	2.0	0.58	ug/L		07/11/19 22:11	07/12/19 00:03	1

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-623987/1-A
Matrix: Water
Analysis Batch: 624141

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 623987

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Beryllium	0.40	U	0.40	0.12	ug/L		07/11/19 22:11	07/12/19 00:03	1
Cadmium	1.0	U	1.0	0.40	ug/L		07/11/19 22:11	07/12/19 00:03	1
Calcium	100	U	100	49.4	ug/L		07/11/19 22:11	07/12/19 00:03	1
Chromium	2.0	U	2.0	1.2	ug/L		07/11/19 22:11	07/12/19 00:03	1
Cobalt	2.0	U	2.0	0.80	ug/L		07/11/19 22:11	07/12/19 00:03	1
Copper	2.0	U	2.0	1.0	ug/L		07/11/19 22:11	07/12/19 00:03	1
Iron	60.0	U	60.0	25.6	ug/L		07/11/19 22:11	07/12/19 00:03	1
Lead	0.60	U	0.60	0.28	ug/L		07/11/19 22:11	07/12/19 00:03	1
Magnesium	100	U	100	36.9	ug/L		07/11/19 22:11	07/12/19 00:03	1
Manganese	4.0	U	4.0	1.4	ug/L		07/11/19 22:11	07/12/19 00:03	1
Nickel	2.0	U	2.0	1.2	ug/L		07/11/19 22:11	07/12/19 00:03	1
Potassium	100	U	100	43.4	ug/L		07/11/19 22:11	07/12/19 00:03	1
Selenium	5.0	U	5.0	2.7	ug/L		07/11/19 22:11	07/12/19 00:03	1
Silver	1.0	U	1.0	0.30	ug/L		07/11/19 22:11	07/12/19 00:03	1
Sodium	100	U	100	64.0	ug/L		07/11/19 22:11	07/12/19 00:03	1
Thallium	0.40	U	0.40	0.079	ug/L		07/11/19 22:11	07/12/19 00:03	1
Vanadium	2.0	U	2.0	0.56	ug/L		07/11/19 22:11	07/12/19 00:03	1
Zinc	8.0	U	8.0	5.6	ug/L		07/11/19 22:11	07/12/19 00:03	1

Lab Sample ID: LCS 460-623987/2-A
Matrix: Water
Analysis Batch: 624141

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 623987

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aluminum	500	527.0		ug/L		105	80 - 120
Antimony	5.00	4.92		ug/L		98	80 - 120
Arsenic	10.0	10.24		ug/L		102	80 - 120
Barium	10.0	9.49		ug/L		95	80 - 120
Beryllium	5.00	5.10		ug/L		102	80 - 120
Cadmium	5.00	5.14		ug/L		103	80 - 120
Calcium	500	535.8		ug/L		107	80 - 120
Chromium	10.0	10.52		ug/L		105	80 - 120
Cobalt	5.00	5.24		ug/L		105	80 - 120
Copper	10.0	11.01		ug/L		110	80 - 120
Iron	500	548.7		ug/L		110	80 - 120
Lead	5.00	5.09		ug/L		102	80 - 120
Magnesium	500	519.0		ug/L		104	80 - 120
Manganese	50.0	53.71		ug/L		107	80 - 120
Nickel	10.0	10.62		ug/L		106	80 - 120
Potassium	500	522.7		ug/L		105	80 - 120
Selenium	10.0	10.47		ug/L		105	80 - 120
Silver	5.00	5.60		ug/L		112	80 - 120
Sodium	500	538.2		ug/L		108	80 - 120
Thallium	4.00	4.06		ug/L		102	80 - 120
Vanadium	10.0	10.37		ug/L		104	80 - 120
Zinc	50.0	54.34		ug/L		109	80 - 120

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 460-624572/1-A ^2
Matrix: Water
Analysis Batch: 624896

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624572

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	40.0	U	40.0	18.8	ug/L		07/15/19 08:50	07/15/19 19:45	2
Antimony	2.0	U	2.0	0.40	ug/L		07/15/19 08:50	07/15/19 19:45	2
Arsenic	2.0	U	2.0	0.73	ug/L		07/15/19 08:50	07/15/19 19:45	2
Barium	4.0	U	4.0	1.2	ug/L		07/15/19 08:50	07/15/19 19:45	2
Beryllium	0.80	U	0.80	0.25	ug/L		07/15/19 08:50	07/15/19 19:45	2
Cadmium	2.0	U	2.0	0.81	ug/L		07/15/19 08:50	07/15/19 19:45	2
Calcium	200	U	200	98.8	ug/L		07/15/19 08:50	07/15/19 19:45	2
Chromium	4.0	U	4.0	2.3	ug/L		07/15/19 08:50	07/15/19 19:45	2
Cobalt	4.0	U	4.0	1.6	ug/L		07/15/19 08:50	07/15/19 19:45	2
Copper	4.0	U	4.0	2.0	ug/L		07/15/19 08:50	07/15/19 19:45	2
Iron	120	U	120	51.1	ug/L		07/15/19 08:50	07/15/19 19:45	2
Lead	1.2	U	1.2	0.55	ug/L		07/15/19 08:50	07/15/19 19:45	2
Magnesium	200	U	200	73.7	ug/L		07/15/19 08:50	07/15/19 19:45	2
Manganese	8.0	U	8.0	2.9	ug/L		07/15/19 08:50	07/15/19 19:45	2
Nickel	4.0	U	4.0	2.4	ug/L		07/15/19 08:50	07/15/19 19:45	2
Potassium	200	U	200	86.7	ug/L		07/15/19 08:50	07/15/19 19:45	2
Selenium	10.0	U	10.0	5.4	ug/L		07/15/19 08:50	07/15/19 19:45	2
Silver	2.0	U	2.0	0.59	ug/L		07/15/19 08:50	07/15/19 19:45	2
Sodium	200	U	200	128	ug/L		07/15/19 08:50	07/15/19 19:45	2
Thallium	0.80	U	0.80	0.16	ug/L		07/15/19 08:50	07/15/19 19:45	2
Vanadium	4.0	U	4.0	1.1	ug/L		07/15/19 08:50	07/15/19 19:45	2
Zinc	16.0	U	16.0	11.1	ug/L		07/15/19 08:50	07/15/19 19:45	2

Lab Sample ID: LCS 460-624572/2-A ^2
Matrix: Water
Analysis Batch: 624896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	25.0	27.30		ug/L		109	80 - 120
Arsenic	50.0	49.37		ug/L		99	80 - 120
Barium	50.0	51.89		ug/L		104	80 - 120
Beryllium	25.0	27.25		ug/L		109	80 - 120
Cadmium	25.0	27.14		ug/L		109	80 - 120
Calcium	2500	2534		ug/L		101	80 - 120
Chromium	50.0	53.63		ug/L		107	80 - 120
Cobalt	25.0	26.46		ug/L		106	80 - 120
Copper	50.0	54.16		ug/L		108	80 - 120
Iron	2500	2719		ug/L		109	80 - 120
Lead	25.0	26.42		ug/L		106	80 - 120
Magnesium	2500	2581		ug/L		103	80 - 120
Manganese	250	269.8		ug/L		108	80 - 120
Nickel	50.0	59.10		ug/L		118	80 - 120
Potassium	2500	2569		ug/L		103	80 - 120
Selenium	50.0	49.59		ug/L		99	80 - 120
Silver	25.0	26.82		ug/L		107	80 - 120
Sodium	2500	2593		ug/L		104	80 - 120
Thallium	20.0	20.90		ug/L		105	80 - 120
Vanadium	50.0	52.63		ug/L		105	80 - 120

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-624572/2-A ^2
Matrix: Water
Analysis Batch: 624896

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624572

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	250	262.9		ug/L		105	80 - 120

Lab Sample ID: 460-186563-1 MS
Matrix: Water
Analysis Batch: 624896

Client Sample ID: TW-03_20190712
Prep Type: Total/NA
Prep Batch: 624572

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	614		2500	3171		ug/L		102	75 - 125
Antimony	2.0	U	25.0	27.19		ug/L		109	75 - 125
Arsenic	2.0	U	50.0	47.36		ug/L		95	75 - 125
Barium	138		50.0	186.6		ug/L		97	75 - 125
Beryllium	0.80	U	25.0	26.52		ug/L		106	75 - 125
Cadmium	2.0	U	25.0	25.17		ug/L		101	75 - 125
Calcium	180000		2500	183400	4	ug/L		154	75 - 125
Chromium	3.4	J	50.0	54.64		ug/L		102	75 - 125
Cobalt	3.4	J	25.0	28.37		ug/L		100	75 - 125
Copper	3.3	J	50.0	52.97		ug/L		99	75 - 125
Iron	1370		2500	3897		ug/L		101	75 - 125
Lead	1.5		25.0	28.36		ug/L		107	75 - 125
Magnesium	41000		2500	43130	4	ug/L		85	75 - 125
Manganese	183		250	438.8		ug/L		102	75 - 125
Nickel	3.4	J	50.0	52.90		ug/L		99	75 - 125
Potassium	9240		2500	11750		ug/L		100	75 - 125
Selenium	10.0	U	50.0	48.92		ug/L		98	75 - 125
Silver	2.0	U	25.0	25.31		ug/L		101	75 - 125
Sodium	350000		2500	347500	4	ug/L		-93	75 - 125
Thallium	0.80	U	20.0	21.73		ug/L		109	75 - 125
Vanadium	2.8	J	50.0	54.90		ug/L		104	75 - 125
Zinc	16.0	U	250	244.0		ug/L		98	75 - 125

Lab Sample ID: 460-186563-1 DU
Matrix: Water
Analysis Batch: 624896

Client Sample ID: TW-03_20190712
Prep Type: Total/NA
Prep Batch: 624572

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	614		686.2		ug/L		11	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	138		138.4		ug/L		0.2	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	180000		182300		ug/L		2	20
Chromium	3.4	J	3.49	J	ug/L		2	20
Cobalt	3.4	J	3.48	J	ug/L		2	20
Copper	3.3	J	3.54	J	ug/L		8	20
Iron	1370		1377		ug/L		0.5	20
Lead	1.5		2.20		ug/L		36	20
Magnesium	41000		41350		ug/L		0.8	20
Manganese	183		186.0		ug/L		2	20

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186563-1 DU
Matrix: Water
Analysis Batch: 624896

Client Sample ID: TW-03_20190712
Prep Type: Total/NA
Prep Batch: 624572

Analyte	Sample		DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Nickel	3.4	J	3.45	J	ug/L		2	20
Potassium	9240		9451		ug/L		2	20
Selenium	10.0	U	10.0	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	350000		352200		ug/L		0.7	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	2.8	J	3.03	J	ug/L		7	20
Zinc	16.0	U	13.20	J	ug/L		NC	20

Lab Sample ID: MB 460-624997/1-A
Matrix: Water
Analysis Batch: 625046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624997

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aluminum	20.0	U	20.0	9.4	ug/L		07/16/19 17:08	07/16/19 17:42	1
Antimony	1.0	U	1.0	0.20	ug/L		07/16/19 17:08	07/16/19 17:42	1
Barium	2.0	U	2.0	0.58	ug/L		07/16/19 17:08	07/16/19 17:42	1
Beryllium	0.40	U	0.40	0.12	ug/L		07/16/19 17:08	07/16/19 17:42	1
Cadmium	1.0	U	1.0	0.40	ug/L		07/16/19 17:08	07/16/19 17:42	1
Calcium	100	U	100	49.4	ug/L		07/16/19 17:08	07/16/19 17:42	1
Chromium	2.0	U	2.0	1.2	ug/L		07/16/19 17:08	07/16/19 17:42	1
Cobalt	2.0	U	2.0	0.80	ug/L		07/16/19 17:08	07/16/19 17:42	1
Copper	2.0	U	2.0	1.0	ug/L		07/16/19 17:08	07/16/19 17:42	1
Iron	60.0	U	60.0	25.6	ug/L		07/16/19 17:08	07/16/19 17:42	1
Lead	0.60	U	0.60	0.28	ug/L		07/16/19 17:08	07/16/19 17:42	1
Magnesium	100	U	100	36.9	ug/L		07/16/19 17:08	07/16/19 17:42	1
Manganese	4.0	U	4.0	1.4	ug/L		07/16/19 17:08	07/16/19 17:42	1
Nickel	2.0	U	2.0	1.2	ug/L		07/16/19 17:08	07/16/19 17:42	1
Potassium	100	U	100	43.4	ug/L		07/16/19 17:08	07/16/19 17:42	1
Selenium	5.0	U	5.0	2.7	ug/L		07/16/19 17:08	07/16/19 17:42	1
Silver	1.0	U	1.0	0.30	ug/L		07/16/19 17:08	07/16/19 17:42	1
Sodium	100	U	100	64.0	ug/L		07/16/19 17:08	07/16/19 17:42	1
Thallium	0.40	U	0.40	0.079	ug/L		07/16/19 17:08	07/16/19 17:42	1
Vanadium	2.0	U	2.0	0.56	ug/L		07/16/19 17:08	07/16/19 17:42	1
Zinc	8.0	U	8.0	5.6	ug/L		07/16/19 17:08	07/16/19 17:42	1

Lab Sample ID: MB 460-624997/1-A
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624997

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	1.0	U	1.0	0.37	ug/L		07/16/19 17:08	07/16/19 22:44	1

Lab Sample ID: LCS 460-624997/2-A
Matrix: Water
Analysis Batch: 625046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 460-624997/2-A
Matrix: Water
Analysis Batch: 625046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Antimony	5.00	5.13		ug/L		103	80 - 120
Barium	10.0	10.18		ug/L		102	80 - 120
Beryllium	5.00	4.84		ug/L		97	80 - 120
Cadmium	5.00	5.16		ug/L		103	80 - 120
Calcium	500	523.6		ug/L		105	80 - 120
Chromium	10.0	10.40		ug/L		104	80 - 120
Cobalt	5.00	5.25		ug/L		105	80 - 120
Copper	10.0	10.76		ug/L		108	80 - 120
Iron	500	541.8		ug/L		108	80 - 120
Lead	5.00	5.10		ug/L		102	80 - 120
Magnesium	500	511.7		ug/L		102	80 - 120
Manganese	50.0	52.89		ug/L		106	80 - 120
Nickel	10.0	10.65		ug/L		106	80 - 120
Potassium	500	507.2		ug/L		101	80 - 120
Selenium	10.0	10.36		ug/L		104	80 - 120
Silver	5.00	5.75		ug/L		115	80 - 120
Sodium	500	516.7		ug/L		103	80 - 120
Thallium	4.00	4.03		ug/L		101	80 - 120
Vanadium	10.0	10.25		ug/L		102	80 - 120
Zinc	50.0	52.50		ug/L		105	80 - 120

Lab Sample ID: LCS 460-624997/2-A
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Arsenic	10.0	10.79		ug/L		108	80 - 120

Lab Sample ID: 460-186299-1 MS
Matrix: Water
Analysis Batch: 624141

Client Sample ID: TW-05_20190710
Prep Type: Dissolved
Prep Batch: 623987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	40.0	U	1000	1022		ug/L		102	75 - 125
Antimony	2.0	U	10.0	10.89		ug/L		109	75 - 125
Arsenic	2.0	U	20.0	21.64		ug/L		108	75 - 125
Barium	103		20.0	123.0	4	ug/L		99	75 - 125
Beryllium	0.80	U	10.0	10.43		ug/L		104	75 - 125
Cadmium	2.0	U	10.0	9.91		ug/L		99	75 - 125
Calcium	153000		1000	156000	4	ug/L		331	75 - 125
Chromium	4.0	U	20.0	20.80		ug/L		104	75 - 125
Cobalt	1.9	J	10.0	11.53		ug/L		97	75 - 125
Copper	4.0	U	20.0	19.80		ug/L		99	75 - 125
Iron	120	U	1000	1011		ug/L		101	75 - 125
Lead	1.2	U	10.0	10.76		ug/L		108	75 - 125
Magnesium	29900		1000	31860	4	ug/L		200	75 - 125
Manganese	179		100	279.3		ug/L		100	75 - 125
Nickel	2.9	J	20.0	22.02		ug/L		96	75 - 125
Potassium	12300		1000	13420	4	ug/L		108	75 - 125

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186299-1 MS

Matrix: Water

Analysis Batch: 624141

Client Sample ID: TW-05_20190710

Prep Type: Dissolved

Prep Batch: 623987

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Selenium	7.1	J	20.0	30.10		ug/L		115	75 - 125
Silver	2.0	U	10.0	10.62		ug/L		106	75 - 125
Sodium	231000		1000	234400	4	ug/L		367	75 - 125
Thallium	0.80	U	8.00	8.34		ug/L		104	75 - 125
Vanadium	4.0	U	20.0	20.24		ug/L		101	75 - 125
Zinc	16.0	U	100	97.19		ug/L		97	75 - 125

Lab Sample ID: 460-186299-1 DU

Matrix: Water

Analysis Batch: 624141

Client Sample ID: TW-05_20190710

Prep Type: Dissolved

Prep Batch: 623987

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	40.0	U	40.0	U	ug/L		NC	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Arsenic	2.0	U	2.0	U	ug/L		NC	20
Barium	103		103.0		ug/L		0.2	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	153000		153200		ug/L		0.4	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	1.9	J	1.83	J	ug/L		2	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	120	U	120	U	ug/L		NC	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Magnesium	29900		29640		ug/L		0.7	20
Manganese	179		177.0		ug/L		1	20
Nickel	2.9	J	2.98	J	ug/L		3	20
Potassium	12300		12200		ug/L		1	20
Selenium	7.1	J	6.84	J	ug/L		4	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Sodium	231000		229700		ug/L		0.5	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	4.0	U	4.0	U	ug/L		NC	20
Zinc	16.0	U	16.0	U	ug/L		NC	20

Lab Sample ID: 460-186297-F-4-B MS ^2

Matrix: Water

Analysis Batch: 625046

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 624997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aluminum	40.0	U	1000	841.2		ug/L		84	75 - 125
Barium	475		20.0	471.9	4	ug/L		-17	75 - 125
Beryllium	0.80	U	10.0	7.92		ug/L		79	75 - 125
Cadmium	2.0	U	10.0	7.79		ug/L		78	75 - 125
Calcium	77200		1000	76910	4	ug/L		-32	75 - 125
Chromium	4.0	U	20.0	16.79		ug/L		84	75 - 125
Cobalt	18.4		10.0	26.15		ug/L		77	75 - 125
Copper	4.0	U	20.0	15.58		ug/L		78	75 - 125
Iron	117000		1000	116700	4	ug/L		3	75 - 125

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QC Sample Results

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186297-F-4-B MS ^2
Matrix: Water
Analysis Batch: 625046

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Lead	1.2	U	10.0	8.60		ug/L		86	75 - 125
Magnesium	62800		1000	63210	4	ug/L		38	75 - 125
Manganese	1750		100	1812	4	ug/L		62	75 - 125
Nickel	21.9		20.0	37.07		ug/L		76	75 - 125
Potassium	11300		1000	11950	4	ug/L		70	75 - 125
Selenium	10.0	U	20.0	18.54		ug/L		93	75 - 125
Silver	2.0	U	10.0	8.08		ug/L		81	75 - 125
Thallium	0.80	U	8.00	7.12		ug/L		89	75 - 125
Vanadium	3.1	J	20.0	19.41		ug/L		82	75 - 125
Zinc	15.9	J	100	92.36		ug/L		76	75 - 125

Lab Sample ID: 460-186297-F-4-B MS ^2
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Arsenic	7.0		20.0	24.38		ug/L		87	75 - 125

Lab Sample ID: 460-186297-F-4-B MS ^2
Matrix: Water
Analysis Batch: 626313

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Antimony	2.0	U	10.0	10.99		ug/L		110	75 - 125

Lab Sample ID: 460-186297-F-4-B MS ^20
Matrix: Water
Analysis Batch: 626313

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier		Result	Qualifier				
Sodium	1070000		10000	886100	4	ug/L		-1800	75 - 125

Lab Sample ID: 460-186297-A-4-A DU ^2
Matrix: Water
Analysis Batch: 625046

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier		Result				
Aluminum	40.0	U	19.98	J	ug/L		NC	20
Antimony	2.0	U	2.0	U	ug/L		NC	20
Barium	475		472.3		ug/L		0.6	20
Beryllium	0.80	U	0.80	U	ug/L		NC	20
Cadmium	2.0	U	2.0	U	ug/L		NC	20
Calcium	77200		75420		ug/L		2	20
Chromium	4.0	U	4.0	U	ug/L		NC	20
Cobalt	18.4		18.02		ug/L		2	20
Copper	4.0	U	4.0	U	ug/L		NC	20
Iron	117000		115300		ug/L		1	20
Lead	1.2	U	1.2	U	ug/L		NC	20
Magnesium	62800		62720		ug/L		0.2	20
Manganese	1750		1733		ug/L		1	20

Eurofins TestAmerica, Edison

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 460-186297-A-4-A DU ^2
Matrix: Water
Analysis Batch: 625046

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Nickel	21.9		21.55		ug/L		1	20
Potassium	11300		11170		ug/L		0.8	20
Selenium	10.0	U	10.0	U	ug/L		NC	20
Silver	2.0	U	2.0	U	ug/L		NC	20
Thallium	0.80	U	0.80	U	ug/L		NC	20
Vanadium	3.1	J	2.96	J	ug/L		4	20
Zinc	15.9	J	15.81	J	ug/L		0.8	20

Lab Sample ID: 460-186297-A-4-A DU ^2
Matrix: Water
Analysis Batch: 625182

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	7.0		7.24		ug/L		3	20

Lab Sample ID: 460-186297-A-4-A DU ^20
Matrix: Water
Analysis Batch: 626313

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 624997

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Sodium	1070000		886700		ug/L		18	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 460-624631/1-A
Matrix: Water
Analysis Batch: 624695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624631

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.20	U	0.20	0.12	ug/L		07/15/19 12:07	07/15/19 14:09	1

Lab Sample ID: LCS 460-624631/2-A
Matrix: Water
Analysis Batch: 624695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 624631

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Mercury	1.00	0.990		ug/L		99	80 - 120

Lab Sample ID: MB 460-624648/1-A
Matrix: Water
Analysis Batch: 624695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 624648

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.20	U	0.20	0.12	ug/L		07/15/19 14:00	07/15/19 15:14	1

QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 460-625217/1-A
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L	-	07/17/19 11:55	07/17/19 13:22	1

Lab Sample ID: LCS 460-625217/2-A
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625217
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	1.00	0.977	U	ug/L	-	98	80 - 120

Lab Sample ID: 460-186578-D-1-D MS
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 625217
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.20	U	1.00	0.934	U	ug/L	-	93	75 - 125

Lab Sample ID: 460-186578-D-1-C DU
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 625217
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.20	U	0.20	U	ug/L	-	NC	20

Lab Sample ID: MB 460-625219/1-A
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 625219

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.20	U	0.20	0.12	ug/L	-	07/17/19 12:05	07/17/19 14:12	1

Lab Sample ID: LCS 460-625219/2-A
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 625219
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	1.00	0.984	U	ug/L	-	98	80 - 120

Lab Sample ID: 460-186299-1 DU
Matrix: Water
Analysis Batch: 624695

Client Sample ID: TW-05_20190710
Prep Type: Dissolved
Prep Batch: 624648
RPD

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.20	U	0.20	U	ug/L	-	NC	20

Lab Sample ID: 460-186727-H-1-D MS
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 625219
%Rec.

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.20	U	1.00	0.961	U	ug/L	-	96	75 - 125

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QC Sample Results

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: 460-186727-H-1-C DU
Matrix: Water
Analysis Batch: 625277

Client Sample ID: Duplicate
Prep Type: Dissolved
Prep Batch: 625219

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.20	U	0.20	U	ug/L		NC	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

GC/MS VOA

Analysis Batch: 624021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	8260C	
460-186299-3	Trip Blank_20190710	Total/NA	Water	8260C	
MB 460-624021/8	Method Blank	Total/NA	Water	8260C	
LCS 460-624021/3	Lab Control Sample	Total/NA	Water	8260C	
460-186299-1 MS	TW-05_20190710	Total/NA	Water	8260C	
460-186299-1 MSD	TW-05_20190710	Total/NA	Water	8260C	

Analysis Batch: 624221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-2	TW-02_20190710	Total/NA	Water	8260C	
MB 460-624221/8	Method Blank	Total/NA	Water	8260C	
LCS 460-624221/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-624221/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 625284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	8260C	
MB 460-625284/9	Method Blank	Total/NA	Water	8260C	
LCS 460-625284/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-625284/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 623788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	3510C	
460-186299-2	TW-02_20190710	Total/NA	Water	3510C	
MB 460-623788/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-623788/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 460-623788/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-623788/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 460-623788/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-186201-F-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
460-186201-H-4-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 623957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	8270D	623788
460-186299-2	TW-02_20190710	Total/NA	Water	8270D	623788
MB 460-623788/1-A	Method Blank	Total/NA	Water	8270D	623788
LCS 460-623788/2-A	Lab Control Sample	Total/NA	Water	8270D	623788
LCS 460-623788/4-A	Lab Control Sample	Total/NA	Water	8270D	623788
LCSD 460-623788/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	623788
LCSD 460-623788/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	623788
460-186201-F-4-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	623788
460-186201-H-4-A MS	Matrix Spike	Total/NA	Water	8270D	623788

Prep Batch: 624444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	3510C	
MB 460-624444/1-A	Method Blank	Total/NA	Water	3510C	

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QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

GC/MS Semi VOA (Continued)

Prep Batch: 624444 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-624444/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 460-624444/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-624444/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 460-624444/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
460-186494-A-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
460-186494-C-7-A MS	Matrix Spike	Total/NA	Water	3510C	

Analysis Batch: 624502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	8270D	624444
MB 460-624444/1-A	Method Blank	Total/NA	Water	8270D	624444
LCS 460-624444/2-A	Lab Control Sample	Total/NA	Water	8270D	624444
LCS 460-624444/4-A	Lab Control Sample	Total/NA	Water	8270D	624444
LCSD 460-624444/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	624444
LCSD 460-624444/5-A	Lab Control Sample Dup	Total/NA	Water	8270D	624444
460-186494-A-7-A MSD	Matrix Spike Duplicate	Total/NA	Water	8270D	624444
460-186494-C-7-A MS	Matrix Spike	Total/NA	Water	8270D	624444

GC Semi VOA

Prep Batch: 624379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	3510C	
460-186299-2	TW-02_20190710	Total/NA	Water	3510C	
MB 460-624379/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-624379/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-624379/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 624380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	3510C	
460-186299-2	TW-02_20190710	Total/NA	Water	3510C	
MB 460-624380/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-624380/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-624380/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 624453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	8082A	624380
460-186299-2	TW-02_20190710	Total/NA	Water	8082A	624380
MB 460-624380/1-A	Method Blank	Total/NA	Water	8082A	624380
LCS 460-624380/2-A	Lab Control Sample	Total/NA	Water	8082A	624380
LCSD 460-624380/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	624380

Analysis Batch: 624459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	8081B	624379
460-186299-2	TW-02_20190710	Total/NA	Water	8081B	624379
MB 460-624379/1-A	Method Blank	Total/NA	Water	8081B	624379
LCS 460-624379/2-A	Lab Control Sample	Total/NA	Water	8081B	624379
LCSD 460-624379/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	624379

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QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

GC Semi VOA

Prep Batch: 624485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	3510C	
MB 460-624485/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-624485/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-624485/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 624486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	3510C	
MB 460-624486/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-624486/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-624486/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 624545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	8082A	624486
MB 460-624486/1-A	Method Blank	Total/NA	Water	8082A	624486
LCS 460-624486/2-A	Lab Control Sample	Total/NA	Water	8082A	624486
LCSD 460-624486/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	624486

Analysis Batch: 624557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	8081B	624485
MB 460-624485/1-A	Method Blank	Total/NA	Water	8081B	624485
LCS 460-624485/2-A	Lab Control Sample	Total/NA	Water	8081B	624485
LCSD 460-624485/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	624485

Metals

Prep Batch: 623976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	3010A	
460-186299-2	TW-02_20190710	Total/NA	Water	3010A	
MB 460-623976/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 460-623976/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-185931-M-1-A MS ^2	Matrix Spike	Total/NA	Water	3010A	
460-185931-A-1-A DU ^2	Duplicate	Total/NA	Water	3010A	

Prep Batch: 623987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Dissolved	Water	3010A	
460-186299-2	TW-02_20190710	Dissolved	Water	3010A	
MB 460-623987/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-623987/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-186299-1 MS	TW-05_20190710	Dissolved	Water	3010A	
460-186299-1 DU	TW-05_20190710	Dissolved	Water	3010A	

Analysis Batch: 624141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Dissolved	Water	6020B	623987
460-186299-2	TW-02_20190710	Dissolved	Water	6020B	623987
MB 460-623987/1-A	Method Blank	Total/NA	Water	6020B	623987

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QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Metals (Continued)

Analysis Batch: 624141 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 460-623987/2-A	Lab Control Sample	Total/NA	Water	6020B	623987
460-186299-1 MS	TW-05_20190710	Dissolved	Water	6020B	623987
460-186299-1 DU	TW-05_20190710	Dissolved	Water	6020B	623987

Analysis Batch: 624161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	6020B	623976
460-186299-2	TW-02_20190710	Total/NA	Water	6020B	623976
460-186299-2	TW-02_20190710	Total/NA	Water	6020B	623976
MB 460-623976/1-A ^2	Method Blank	Total/NA	Water	6020B	623976
LCS 460-623976/2-A ^2	Lab Control Sample	Total/NA	Water	6020B	623976
460-185931-M-1-A MS ^2	Matrix Spike	Total/NA	Water	6020B	623976
460-185931-A-1-A DU ^2	Duplicate	Total/NA	Water	6020B	623976

Prep Batch: 624572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	3010A	
MB 460-624572/1-A ^2	Method Blank	Total/NA	Water	3010A	
LCS 460-624572/2-A ^2	Lab Control Sample	Total/NA	Water	3010A	
460-186563-1 MS	TW-03_20190712	Total/NA	Water	3010A	
460-186563-1 DU	TW-03_20190712	Total/NA	Water	3010A	

Prep Batch: 624631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Total/NA	Water	7470A	
460-186299-2	TW-02_20190710	Total/NA	Water	7470A	
MB 460-624631/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-624631/2-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 624648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Dissolved	Water	7470A	
460-186299-2	TW-02_20190710	Dissolved	Water	7470A	
MB 460-624648/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-624648/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-186299-1 MS	TW-05_20190710	Dissolved	Water	7470A	
460-186299-1 DU	TW-05_20190710	Dissolved	Water	7470A	

Analysis Batch: 624695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-1	TW-05_20190710	Dissolved	Water	7470A	624648
460-186299-1	TW-05_20190710	Total/NA	Water	7470A	624631
460-186299-2	TW-02_20190710	Dissolved	Water	7470A	624648
460-186299-2	TW-02_20190710	Total/NA	Water	7470A	624631
MB 460-624631/1-A	Method Blank	Total/NA	Water	7470A	624631
MB 460-624648/1-A	Method Blank	Total/NA	Water	7470A	624648
LCS 460-624631/2-A	Lab Control Sample	Total/NA	Water	7470A	624631
LCS 460-624648/2-A	Lab Control Sample	Total/NA	Water	7470A	624648
460-186299-1 MS	TW-05_20190710	Dissolved	Water	7470A	624648
460-186299-1 DU	TW-05_20190710	Dissolved	Water	7470A	624648

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QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Metals

Analysis Batch: 624896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	6020B	624572
MB 460-624572/1-A ^2	Method Blank	Total/NA	Water	6020B	624572
LCS 460-624572/2-A ^2	Lab Control Sample	Total/NA	Water	6020B	624572
460-186563-1 MS	TW-03_20190712	Total/NA	Water	6020B	624572
460-186563-1 DU	TW-03_20190712	Total/NA	Water	6020B	624572

Analysis Batch: 624954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186299-2	TW-02_20190710	Dissolved	Water	6020B	623987

Prep Batch: 624997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Dissolved	Water	3010A	
MB 460-624997/1-A	Method Blank	Total/NA	Water	3010A	
LCS 460-624997/2-A	Lab Control Sample	Total/NA	Water	3010A	
460-186297-F-4-B MS ^2	Matrix Spike	Dissolved	Water	3010A	
460-186297-F-4-B MS ^20	Matrix Spike	Dissolved	Water	3010A	
460-186297-A-4-A DU ^2	Duplicate	Dissolved	Water	3010A	
460-186297-A-4-A DU ^20	Duplicate	Dissolved	Water	3010A	

Analysis Batch: 625046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Dissolved	Water	6020B	624997
MB 460-624997/1-A	Method Blank	Total/NA	Water	6020B	624997
LCS 460-624997/2-A	Lab Control Sample	Total/NA	Water	6020B	624997
460-186297-F-4-B MS ^2	Matrix Spike	Dissolved	Water	6020B	624997
460-186297-A-4-A DU ^2	Duplicate	Dissolved	Water	6020B	624997

Analysis Batch: 625182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Dissolved	Water	6020B	624997
MB 460-624997/1-A	Method Blank	Total/NA	Water	6020B	624997
LCS 460-624997/2-A	Lab Control Sample	Total/NA	Water	6020B	624997
460-186297-F-4-B MS ^2	Matrix Spike	Dissolved	Water	6020B	624997
460-186297-A-4-A DU ^2	Duplicate	Dissolved	Water	6020B	624997

Prep Batch: 625217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Total/NA	Water	7470A	
MB 460-625217/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-625217/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-186578-D-1-D MS	Matrix Spike	Total/NA	Water	7470A	
460-186578-D-1-C DU	Duplicate	Total/NA	Water	7470A	

Prep Batch: 625219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Dissolved	Water	7470A	
MB 460-625219/1-A	Method Blank	Total/NA	Water	7470A	
LCS 460-625219/2-A	Lab Control Sample	Total/NA	Water	7470A	
460-186727-H-1-D MS	Matrix Spike	Dissolved	Water	7470A	
460-186727-H-1-C DU	Duplicate	Dissolved	Water	7470A	

Eurofins TestAmerica, Edison

QC Association Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Metals

Analysis Batch: 625277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186563-1	TW-03_20190712	Dissolved	Water	7470A	625219
460-186563-1	TW-03_20190712	Total/NA	Water	7470A	625217
MB 460-625217/1-A	Method Blank	Total/NA	Water	7470A	625217
MB 460-625219/1-A	Method Blank	Total/NA	Water	7470A	625219
LCS 460-625217/2-A	Lab Control Sample	Total/NA	Water	7470A	625217
LCS 460-625219/2-A	Lab Control Sample	Total/NA	Water	7470A	625219
460-186578-D-1-D MS	Matrix Spike	Total/NA	Water	7470A	625217
460-186727-H-1-D MS	Matrix Spike	Dissolved	Water	7470A	625219
460-186578-D-1-C DU	Duplicate	Total/NA	Water	7470A	625217
460-186727-H-1-C DU	Duplicate	Dissolved	Water	7470A	625219

Analysis Batch: 626313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-186297-F-4-B MS ^2	Matrix Spike	Dissolved	Water	6020B	624997
460-186297-F-4-B MS ^20	Matrix Spike	Dissolved	Water	6020B	624997
460-186297-A-4-A DU ^20	Duplicate	Dissolved	Water	6020B	624997

Lab Chronicle

Client: AKRF Inc
 Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: TW-05_20190710

Lab Sample ID: 460-186299-1

Date Collected: 07/10/19 12:45

Matrix: Water

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624021	07/12/19 09:18	DAS	TAL EDI
Total/NA	Prep	3510C			623788	07/11/19 08:33	AMT	TAL EDI
Total/NA	Analysis	8270D		1	623957	07/12/19 01:38	YAH	TAL EDI
Total/NA	Prep	3510C			624379	07/13/19 16:45	ATF	TAL EDI
Total/NA	Analysis	8081B		1	624459	07/14/19 14:55	JHP	TAL EDI
Total/NA	Prep	3510C			624380	07/13/19 16:54	ATF	TAL EDI
Total/NA	Analysis	8082A		1	624453	07/14/19 13:29	SXG	TAL EDI
Dissolved	Prep	3010A			623987	07/11/19 22:11	VAD	TAL EDI
Dissolved	Analysis	6020B		2	624141	07/12/19 00:12	VAD	TAL EDI
Total/NA	Prep	3010A			623976	07/11/19 19:10	GAE	TAL EDI
Total/NA	Analysis	6020B		2	624161	07/12/19 13:02	MDC	TAL EDI
Dissolved	Prep	7470A			624648	07/15/19 14:00	RBS	TAL EDI
Dissolved	Analysis	7470A		1	624695	07/15/19 15:17	RBS	TAL EDI
Total/NA	Prep	7470A			624631	07/15/19 12:07	RBS	TAL EDI
Total/NA	Analysis	7470A		1	624695	07/15/19 14:57	RBS	TAL EDI

Client Sample ID: TW-02_20190710

Lab Sample ID: 460-186299-2

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624221	07/12/19 22:49	MZS	TAL EDI
Total/NA	Prep	3510C			623788	07/11/19 08:33	AMT	TAL EDI
Total/NA	Analysis	8270D		1	623957	07/12/19 01:59	YAH	TAL EDI
Total/NA	Prep	3510C			624379	07/13/19 16:45	ATF	TAL EDI
Total/NA	Analysis	8081B		1	624459	07/14/19 15:11	JHP	TAL EDI
Total/NA	Prep	3510C			624380	07/13/19 16:54	ATF	TAL EDI
Total/NA	Analysis	8082A		1	624453	07/14/19 13:53	SXG	TAL EDI
Dissolved	Prep	3010A			623987	07/11/19 22:11	VAD	TAL EDI
Dissolved	Analysis	6020B		2	624141	07/12/19 00:17	VAD	TAL EDI
Dissolved	Prep	3010A			623987	07/11/19 22:11	VAD	TAL EDI
Dissolved	Analysis	6020B		10	624954	07/16/19 14:57	MDC	TAL EDI
Total/NA	Prep	3010A			623976	07/11/19 19:10	GAE	TAL EDI
Total/NA	Analysis	6020B		2	624161	07/12/19 13:04	MDC	TAL EDI
Total/NA	Prep	3010A			623976	07/11/19 19:10	GAE	TAL EDI
Total/NA	Analysis	6020B		10	624161	07/12/19 15:37	MDC	TAL EDI
Dissolved	Prep	7470A			624648	07/15/19 14:00	RBS	TAL EDI
Dissolved	Analysis	7470A		1	624695	07/15/19 15:24	RBS	TAL EDI
Total/NA	Prep	7470A			624631	07/15/19 12:07	RBS	TAL EDI
Total/NA	Analysis	7470A		1	624695	07/15/19 14:58	RBS	TAL EDI

Lab Chronicle

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Client Sample ID: Trip Blank_20190710

Lab Sample ID: 460-186299-3

Date Collected: 07/10/19 14:30

Matrix: Water

Date Received: 07/10/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	624021	07/12/19 08:56	DAS	TAL EDI

Client Sample ID: TW-03_20190712

Lab Sample ID: 460-186563-1

Date Collected: 07/12/19 10:00

Matrix: Water

Date Received: 07/12/19 18:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	625284	07/18/19 00:50	VBP	TAL EDI
Total/NA	Prep	3510C			624444	07/14/19 07:02	DXD	TAL EDI
Total/NA	Analysis	8270D		1	624502	07/15/19 01:22	MME	TAL EDI
Total/NA	Prep	3510C			624485	07/14/19 16:25	ATF	TAL EDI
Total/NA	Analysis	8081B		1	624557	07/15/19 11:07	SAK	TAL EDI
Total/NA	Prep	3510C			624486	07/14/19 16:29	ATF	TAL EDI
Total/NA	Analysis	8082A		1	624545	07/15/19 10:37	SXG	TAL EDI
Dissolved	Prep	3010A			624997	07/16/19 17:08	VAD	TAL EDI
Dissolved	Analysis	6020B		2	625046	07/16/19 18:15	VAD	TAL EDI
Dissolved	Prep	3010A			624997	07/16/19 17:08	VAD	TAL EDI
Dissolved	Analysis	6020B		2	625182	07/16/19 23:18	VAD	TAL EDI
Total/NA	Prep	3010A			624572	07/15/19 08:50	QZY	TAL EDI
Total/NA	Analysis	6020B		2	624896	07/15/19 19:56	VAD	TAL EDI
Dissolved	Prep	7470A			625219	07/17/19 12:05	RBS	TAL EDI
Dissolved	Analysis	7470A		1	625277	07/17/19 14:27	RBS	TAL EDI
Total/NA	Prep	7470A			625217	07/17/19 11:55	RBS	TAL EDI
Total/NA	Analysis	7470A		1	625277	07/17/19 13:48	RBS	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Laboratory: Eurofins TestAmerica, Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total

Method Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
8081B	Organochlorine Pesticides (GC)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
6020B	Metals (ICP/MS)	SW846	TAL EDI
7470A	Mercury (CVAA)	SW846	TAL EDI
3010A	Preparation, Total Metals	SW846	TAL EDI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
7470A	Preparation, Mercury	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: AKRF Inc
Project/Site: 521 East Tremont Avenue #190204

Job ID: 460-186299-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-186299-1	TW-05_20190710	Water	07/10/19 12:45	07/10/19 18:30	
460-186299-2	TW-02_20190710	Water	07/10/19 14:30	07/10/19 18:30	
460-186299-3	Trip Blank_20190710	Water	07/10/19 14:30	07/10/19 18:30	
460-186563-1	TW-03_20190712	Water	07/12/19 10:00	07/12/19 18:30	

1

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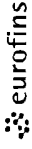
13

14

15

Chain of Custody Record

NCS
222



Client Information Client Contact: Ms. Adrianna Bosco Company: AKRF Inc Address: 440 Park Avenue South 7th Floor City: New York State, Zip: NY, 10016 Phone: 190204 Project #: 46030002 SSO#: 521 East Tremont Avenue #190204 Site: 521 East Tremont Avenue, Bronx, NY		Sampler: Jacob Menken Phone: 94-552-7694 Lab P/N: Bennett, Allison L E-Mail: allison.bennett@testamericainc.com		Carrier Tracking No(s): COC No: 460-115331-74156.2 Page: 1 of 1 Job #: 186299	
Due Date Requested: TAT Requested (days): 5 day rush (standard)		Analysis Requested			
Field Filtered Sample (Yes or No) 8260C - TCL VOCs (pres code A for VOA vials)		8270D - TCL BNA 8081B - TCL Pesticides, 8082A - PCBs 6020B/7471B - TAL Metals w/ Hg (soil) 7196A - Hexavalent Chromium (soil) 6020B/7470A - Total TAL Metals w/ Hg (water) 6020B/7470A - Dissolved TAL Metals w/ Hg (Field Filtered)			
Sample Identification TW-05 20190710 TW-02 20190710 ISOBANK-20190710 Trip Blank 20190710		Sample Date 7/10/19 9/10/19 Lab		Sample Time 1245 1450 Lab	
Sample Type (C=Comp, G=grab)		Preservation Code: WATER water Lab		Matrix (W=water, S=solid, O=soil, A=air) WATER water Lab	
Field Filtered Sample (Yes or No) X X X		Analysis Requested N N N N N N D D		Total Number of Containers 1 1 2	
Special Instructions/Note: 460-186299 Chain of Custody					
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab Archive For: _____ Months					
Empty Kit Relinquished by: _____ Date: _____ Time: _____					
Relinquished by: Jacob Menken Date/Time: 7/10/19 18:30		Relinquished by: _____ Date/Time: 7/10/19 18:30		Relinquished by: _____ Date/Time: 7/10/19 18:30	
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: _____		Cooler Temperature(s) °C and Other Remarks: 2.9, 1.1 IN# 9	



TestAmerica Edison Receipt Temperature and pH Log

Job Number: 18299

Number of Coolers: 9

IR Gun # _____

Cooler Temperatures

	RAW	CORRECTED	RAW	CORRECTED
Cooler #1:	2.9°C	2.4°C	Cooler #7:	_____°C
Cooler #2:	_____°C	_____°C	Cooler #8:	_____°C
Cooler #3:	_____°C	_____°C	Cooler #9:	_____°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other
1				<2											
2				<2											

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____

Lot # of Preservative(s): _____

Volume of Preservative used (ml): _____

Expiration Date: _____


The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.
* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: _____

Date: 7/23/19



CHAIN OF CUSTODY / ANALYSIS REQUEST

Name (for report and invoice) Adrianna Bosco		Site/Project Identification 521 East Tremont, Bronx																			
Company AKRF, INC.		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>																			
Address 440 Park Ave S. 7th floor		Regulatory Program: DKQP: <input type="checkbox"/>																			
City NY NY 10016		LAB USE ONLY Project No:																			
Phone 646-388-9576		Job No: 186563																			
Sample Identification TW-02-20190712		Sample Numbers																			
Date 7/1/19																					
Time 10																					
Matrix GW																					
No. of Cont. 11																					
Analysis Turnaround Time Standard <input checked="" type="checkbox"/> Rush Changes Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		ANALYSIS REQUESTED (ENTER 'X' BELOW, INDICATE REQUEST)																			
P.O. # 190204		<table border="1"> <tr> <td>Vols</td> <td>X</td> </tr> <tr> <td>SVCS</td> <td>X</td> </tr> <tr> <td>Pesticides</td> <td>X</td> </tr> <tr> <td>PCBs</td> <td>X</td> </tr> <tr> <td>TAL Metals</td> <td>X</td> </tr> <tr> <td>filtered lead top</td> <td>X</td> </tr> <tr> <td>TAL Metals</td> <td>X</td> </tr> <tr> <td>unfiltered bottom</td> <td>X</td> </tr> <tr> <td>Hex Chlorocyclopentadiene</td> <td>X</td> </tr> </table>		Vols	X	SVCS	X	Pesticides	X	PCBs	X	TAL Metals	X	filtered lead top	X	TAL Metals	X	unfiltered bottom	X	Hex Chlorocyclopentadiene	X
Vols	X																				
SVCS	X																				
Pesticides	X																				
PCBs	X																				
TAL Metals	X																				
filtered lead top	X																				
TAL Metals	X																				
unfiltered bottom	X																				
Hex Chlorocyclopentadiene	X																				
Sampler's Name (Printed) J. Menden		Barcode 																			
Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH, 6 = Other, 7 = Other		Soil: 12 Water: 15M																			

Special Instructions **CAT. A Delivables, EDU'S JM Close 506.**

Relinquished by Jacob Menden	Company AKRF, INC.	Date / Time 7/1/19 1400	Received by [Signature]	Company [Signature]
Relinquished by [Signature]	Company T.A.	Date / Time 7/1/19 1830	Received by [Signature]	Company [Signature]
Relinquished by	Company	Date / Time	Received by	Company
Relinquished by	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132), Massachusetts (M-NUJ312), North Carolina (No. 578)



TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 186563

Number of Coolers: _____ IR Gun # _____

Cooler Temperatures

Cooler #	Temp (°C)	Temp (°C)	Temp (°C)
Cooler #1	27	27	27
Cooler #2	27	27	27
Cooler #3	27	27	27
Cooler #4	27	27	27
Cooler #5	27	27	27
Cooler #6	27	27	27
Cooler #7	27	27	27
Cooler #8	27	27	27
Cooler #9	27	27	27

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other
1				<2										

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted. Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials: [Signature] Date: 7/23/19



Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-186299-1

Login Number: 186299

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: Jara, Kelly D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: AKRF Inc

Job Number: 460-186299-1

Login Number: 186563

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: Villanueva, Angelica P

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

