
PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

for

538-542 WEST 29TH STREET
New York, New York

NYC TAX BLOCK 700, LOTS 55, 56 AND 57

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PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Phase II Environmental Site Investigation (ESI) Report, on behalf of W29 Owner LLC, for the property located at 538-542 West 29th Street, New York, New York (the site). The site is identified as Borough of Manhattan Tax Block 700, Lots 55, 56, and 57. This Phase II ESI Report was prepared to document impacts from Recognized Environmental Conditions (RECs) identified in the March 11, 2019 Phase I ESA prepared by Langan.

As a result of the City Environmental Quality Review (CEQR) process, the site was assigned an environmental 'E' designation (E-142) by the New York City Department of City Planning (NYCDCP) as part of the June 23, 2005 High Line/ West Chelsea rezoning (CEQR #03DCP069M). The E-Designation requires coordination with the New York City Office of Environmental Remediation (OER) to obtain a Notice to Proceed (NTP) or a Notice of No Objection (NNO) prior to obtaining building permits. The E-Designation addresses environmental requirements for hazardous materials (Hazmat), noise (window wall attenuation and alternative means of ventilation) and air (HVAC fuel limited to natural gas) during development. In addition, there are active New York State Department of Environmental Conservation (NYSDEC) spills at the site for Lot 55 (Spill No. 1805506- 538 West 29th Street) and Lot 56 (Spill No. 1805508- 540 West 29th Street) due to petroleum impacts identified in analytical data collected from soil, groundwater and soil vapor samples during the May/June 2018 subsurface investigation performed by Langan.

The Phase II ESI field work was implemented between May 31 and June 1, 2018 and included a geophysical survey; advancement of six borings; installation of two temporary groundwater wells; installation of two sub-slab and two soil vapor probes; and collection of 21 soil samples, three groundwater samples, one ambient air sample, and four soil vapor samples for laboratory analysis. This Phase II ESI Report summarizes the nature and extent of contamination based on the subsurface investigations performed at the site in May 2014, June 2016, and in May/ June 2018.

2.0 SITE BACKGROUND

2.1 Site Location and Description

The approximately 9,900-square-foot site is located at 538-542 West 29th Street in the Chelsea neighborhood of New York, New York and is identified as Manhattan Borough Tax Map Block 700, Lots 55, 56, and 57. The site is improved with one three-story commercial building (Lot 55), one three-story mixed-use commercial and residential building (Lot 56), and one two-story warehouse (Lot 57). All of the buildings are currently vacant. The site is bounded by West 29th Street to the north, mixed-use residential and commercial buildings followed by the elevated High Line and Tenth Avenue to the east, a multi-story residential apartment building followed by West

28th Street to the south, and a multi-story mixed-use residential and commercial building followed by Eleventh Avenue to the west. The No. 7 subway southern extension runs north-south below Eleventh Avenue, which is about 200 feet to the west of the site. A Site Location Map and Site Plan are provided as Figure 1 and Figure 2, respectively. A map showing the surrounding land uses with descriptions of the adjoining properties is included as Figure 3.

2.2 Proposed Redevelopment Plan

The proposed site development is in the conceptual phase and is anticipated to include the demolition of the on-site buildings and construction of a new commercial building with two cellar levels. The building would require site-wide excavation to about 30 feet below ground surface (bgs) for the building cellar and foundation, which will necessitate dewatering to lower the groundwater table (encountered at about 9.2 to 11.5 feet bgs). To address site contaminants, the plan is to remediate the site, concurrently with redevelopment, under the New York State Brownfield Cleanup Program (BCP). The cleanup would be completed in accordance with a NYSDEC-approved Remedial Action Work Plan (RAWP) and site-specific Construction Health and Safety Plan (CHASP) and the cleanup goals would be for a Track 1 unrestricted use.

2.3 Topography

According to a survey performed by Geoland Land Surveying P.C., dated April 3, 2018, the site elevation ranges from about 11.87 to 12.1 feet as referenced to the North American Vertical Datum of 1988 (NAVD88) and gradually slopes downward from east to west. The topography in the area surrounding the Subject Property gently slopes to the west toward the Hudson River. According to the Federal Emergency Management Agency (FEMA) Preliminary Flood Insurance Rate Map (FIRM) dated December 5, 2013 (Map Number 3604970069G), the site is located in Zone X, which is designated as an area of minimal flood hazard with a 0.2 percent annual chance flood.

2.4 Regional Geology

Available USGS geologic maps and historic topographic maps were reviewed to obtain general geologic and geotechnical information about the site. New York City geology is generally characterized by layers of fill and native soil above metamorphic bedrock. The native soil was generally deposited during the last glacial advance and retreat in the New York City area. The three predominant metamorphic rock formations found in New York City are the Manhattan Schist, the Inwood Marble and the Fordham Gneiss. The site is underlain by the Hartland formation bedrock consisting of granite, schist and amphibolite. Bedrock is generally about 20 to 30 feet below grade in this area of Manhattan.

Based on previous subsurface investigations performed at the site, the subsurface strata consists of historic fill material predominately consisting of sand with varying amounts of gravel, silt, wood, brick, asphalt, concrete, ash, slag, and coal. The fill layer extends to depths ranging from

about 3 to 10 feet bgs. The fill layer is underlain by native soil characterized by brown, fine to medium sand with varying amounts of silt and fine gravel.

2.5 Regional Hydrogeology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeological network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeological and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces. Other factors influencing groundwater include depth to bedrock, the presence of artificial fill, and variability in local geology and groundwater sources or sinks.

Groundwater in this part of New York City is not used as a potable water source. Potable water provided to the City of New York is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds. Based on previous investigations performed at the site, groundwater depth is expected at about 9.2 to 11.5 feet below sidewalk grade and appears to flow west toward the Hudson River.

2.6 Environmental History

The following environmental reports were reviewed for the Subject Property. Copies of the reports are provided in Appendix C.

- April 2, 2014 Phase I Environmental Site Assessment (ESA), prepared by AEI Consultants
- May 2014 Phase II ESA, prepared by P.W. Grosser
- June 2016 Remedial Investigation Report, prepared by Hydro Tech
- April 2018 Phase I ESA, prepared by ESPL Environmental Consultants Corporation
- March 11, 2019 Phase I Environmental Site ESA, prepared by Langan

April 2, 2014 Phase I ESA, prepared by AEI Consultants

The Phase I ESA was completed for 542 West 29th Street (Lot 57) in general accordance with ASTM International Standard E1527-13 and the EPA AAI Rule. The following RECs were identified:

- Historic Site Use: The Subject Property historically operated as an auto repair facility for about 50 years (1945-1994) and was historically surrounded by auto repair facilities, commercial parking lots/garages and a former metal fabrication facility. Inadvertent releases of petroleum products, solvents, and/or other hazardous materials may have occurred associated with the historical use of the Subject Property, or may have migrated to the site from surrounding properties, and adversely impacted soil, groundwater and soil vapor.

- Documented Soil and Groundwater Impacts at the South-Adjoining Property: The Avalon West Chelsea residential development adjoins the site to the south, and subsurface contamination was reported in 2007. Elevated levels of petroleum-related compounds and chlorinated solvents were identified in soil and groundwater. The chlorinated solvents were identified on the eastern side of the Avalon West Chelsea property and determined to originate from up-gradient automotive repair operations or from an up-gradient former metal fabrication operation southeast of the site along West 28th Street. The sources of the petroleum contamination were not directly identified due to the presence of several active and historic auto repair facilities within and in the vicinity of the Avalon property.

During the Avalon West Chelsea residential redevelopment, a test pit was excavated directly south of 542 West 29th Street (Lot 57). Strong petroleum-like odors were documented as far as 100 feet from the test pit. Subsurface sampling was conducted in January 2012 within the footprint of the Avalon West Chelsea residential development and included collection of soil samples, installation of temporary monitoring wells, and collection of groundwater samples. Petroleum contaminants were identified above NYSDEC standards in both soil and groundwater. The chlorinated solvent, cis-1,2-dichloroethene was identified in one groundwater sample above NYSDEC standards. Remediation via in situ chemical oxidation was conducted at the Avalon West Chelsea development in May 2013. Following treatment, soil samples were collected and all samples met soil cleanup objectives; however, groundwater impacts above the targeted guidelines were still identified.

- Closed Petroleum Spill at Vicinity Property: 524 West 29th Street, located about 260 feet southeast and up-gradient to the site, was listed as "Closed-Lack of Recent Info" in the New York Leaking Tanks and New York Spills databases. According to the regulatory database, a release was reported at this site on October 20, 2003 due to petroleum-contaminated soil and groundwater encountered when one 4,000-gallon and one 550-gallon gallon gasoline underground storage tanks (UST) were removed from the property. Elevated levels of benzene, xylene, methyl tertiary-butyl ether (MTBE), and toluene were found in soil and groundwater samples collected from the UST footprints. Air Sparge/Soil Vapor Extraction (AS/SVE) remediation techniques were performed at the property from November to December 2011. Air samples were collected after four weeks and all targeted volatile organic compounds (VOC) were non-detect. Groundwater contaminant concentrations declined and the AS/SVE system reached asymptotic recovery rates. Additional remediation was not warranted or feasible. The spill case was closed on March 12, 2012. Based on the facility's close proximity to the site, residual contamination from the USTs may have impacted groundwater and soil vapor within Lot 57.

May 2014 Phase II ESA, prepared by P.W. Grosser

P.W. Grosser completed a Phase II ESA at 542 West 29th Street (Lot 57) in June 2014 to determine if subsurface soil, soil vapor and groundwater conditions at the property were impacted as a result of the findings from the April 2, 2008 Phase I ESA performed by AEI

Consultants. The investigation included the advancement of five soil borings, collection of three groundwater samples from soil borings, installation and collection of three sub-slab soil vapor samples, and collection of three indoor and one outdoor air samples. Field observations and laboratory analytical results are summarized below:

- Soil: Five soil borings were advanced up to 8 feet bgs using a track-mounted Geoprobe[®] rig throughout the site. No evidence of petroleum impacts (e.g., staining, odors or photoionization detector [PID] readings above background) were observed during the soil boring investigation. Soil samples were analyzed for VOCs and compared to the NYSDEC Unrestricted Use (UU) Soil Cleanup Objectives (SCOs). No VOCs were detected in soil samples collected with the exception of acetone. Acetone is a common laboratory reagent, and its presence in soil samples at the site is likely the result of laboratory contamination.
- Groundwater: Groundwater samples were analyzed for VOCs and analytical results were compared to the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for drinking water (Class GA). Two VOCs, benzene and MTBE (maximum concentrations of 1.4 micrograms per liter [$\mu\text{g/L}$] and 11 $\mu\text{g/L}$, respectively), were detected in groundwater from soil boring location SB-1 (Lot 57) at concentrations above the NYSDEC criteria. These contaminants are common gasoline constituents. Based on the lack of an on-site source, it appears the VOC contamination in groundwater is related to an off-site source.
- Soil Vapor: Sub-slab soil vapor and air samples were analyzed for VOCs and analytical results were compared to the Air Guideline Values (AGV) and Soil Vapor/Indoor Air Matrices specified in the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 and revised May 2017. Trichloroethene (TCE) was detected above AGVs at a concentration of 2.78 micrograms per cubic meter ($\mu\text{g/m}^3$) in sub-slab sample SS-3.

NYSDOH provides decision matrices for eight chlorinated VOCs (carbon tetrachloride, 1,1-dichloroethene, cis-1,2-dichloroethene, TCE, methylene chloride, tetrachloroethene [PCE], 1,1,1-trichloroethane, and vinyl chloride). The decision matrices recommend a range of activities (e.g., monitor, mitigate) based on the sub-slab and indoor air sample results. Three of the eight VOCs that can be evaluated using the NYSDOH decision matrices were detected in sub-slab soil vapor samples (PCE, TCE, and 1,1,1-trichloroethane). Based on the concentrations reported, no further action is recommended pursuant to the NYSDOH decision matrices.

June 2016, Remedial Investigation Report, prepared by Hydro Tech

Hydro Tech performed a Remedial Investigation (RI) at 542 West 29th Street (Lot 57) to determine the nature and extent of contamination and to establish remedial action objectives. The investigation consisted of a site inspection, advancement of five soil borings, installation of three groundwater monitoring wells, installation of two soil vapor points and collection of ten soil, three

groundwater, and two soil vapor samples and one indoor air sample. Field observations and laboratory analytical results are summarized below:

- Stratigraphy: Historic fill was observed up to 8 feet bgs followed by native sand and pebbles up to 12 feet bgs.
- Soil: Five soil borings were advanced up to 12 bgs using a track-mounted Geoprobe[®] rig. No evidence of petroleum impacts (e.g., staining, odors or PID readings above background) were observed during the soil boring investigation. Soil samples were analyzed for VOCs, semivolatile organic compounds (SVOC), polychlorinated biphenyl (PCB), pesticides, and metals and compared to the NYSDEC UU and Restricted Residential Use (RRU) SCOs. PCBs and pesticides were not detected at concentrations exceeding SCOs. One VOC (acetone) and seven SVOCs (benzo[a]anthracene, benzo[k]fluoranthene, benzo[a]pyrene, benzo[b]fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno[1,2,3-cd]pyrene) were detected above UU and RRU SCOs, respectfully. Metals including arsenic, hexavalent chromium, zinc, selenium and nickel were detected at concentrations above UU SCOs and lead, mercury, barium, copper, and cadmium were detected at concentration above RRU SCOs in both shallow and deep soil samples.
- Groundwater: Groundwater samples were analyzed for VOCs, SVOCs, PCBs, pesticides, and metals (total and dissolved) and analytical results were compared to the NYSDEC Title 6 New York City Rules and Regulation (6 NYCRR) Part 703.5 class GA Groundwater Quality Standards (GQS). Six SVOCs (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, chrysene, and indeno[1,2,3-cd]pyrene) and six dissolved metals (including arsenic, magnesium, manganese, selenium, sodium, and thallium) were detected at concentrations greater than their respective GQSs. VOCs, PCBs and pesticides were not detected above GQSs.
- Soil Vapor: Soil vapor and air samples were analyzed for VOCs and analytical results were compared to the NYSDOH AGV and Soil Vapor/Indoor Air Matrices specified in the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 and revised May 2017. The maximum total petroleum VOCs detected in soil vapor samples were lower than the total petroleum concentration for indoor air. TCE was detected above AGVs at a concentration of 6.9 $\mu\text{g}/\text{m}^3$ in soil vapor sample SV-1. Methylene chloride was detected above AGVs at a concentration of 110 $\mu\text{g}/\text{m}^3$ in soil vapor sample SV-2. Six of the eight VOCs that can be evaluated using the NYSDOH decision matrices were detected in sub-slab soil vapor samples (PCE, TCE, carbon tetrachloride, cis-1,2-dichloroethene, methylene chloride, and 1,1,1-trichloroethane). Based on the concentrations reported, no further action is recommended pursuant to the NYSDOH decision matrices.

April 2018 Phase I ESA, prepared by ESPL Environmental Consultants Corporation

The Phase I ESA was completed for 538-540 West 29th Street (Lots 55 and 56) in general accordance with ASTM International Standard E1527-13 and the EPA AAI Rule. The following REC was identified:

- E-Designation: The Subject Property was listed in the New York City Department of Buildings (NYCDOB) with an environmental "E"-Designation (E-142) for hazardous materials, noise attenuation, and air quality.

March 11, 2019 Phase I ESA, prepared by Langan

The Phase I ESA was completed for 538-542 West 29th Street (Lots 55, 56, and 57) in accordance with ASTM International Standard E1527-13 and the EPA AAI Rule. The following RECs and Business Environmental Risks (BER) were identified:

- REC 1 - Documented Contamination at the Subject Property: The Subject Property was previously developed for commercial, residential and minor manufacturing uses including: a lumber yard (1930); auto repair facility (1924-2012); private garage (1950-1987); a light manufacturer (1970); and auto repair shop (1927 to 2005). Based on the analytical data generated during environmental investigations at the Subject Property in 2014, 2016, and 2018, there is documented soil, groundwater and soil vapor contamination at the Subject Property. Petroleum-related VOCs and SVOCs were detected in soil and groundwater at concentrations exceeding applicable regulatory criteria. Sub-slab and soil vapor analytical results identified petroleum and chlorinated solvent-related compounds beneath the existing building slabs.

Open NYSDEC Spill Nos. 1805506 and 1805508 were reported on August 20, 2018 due to identification of petroleum impacts to soil, soil vapor and groundwater during a subsurface investigation performed at 538 and 540 West 29th Street. The petroleum impacts were observed in the southern portions of Tax Lots 55 and 56.

- REC 2 - Historical Use of Adjoining and Surrounding Properties: Historical uses of adjoining and surrounding properties include:
 - A gasoline filling station located at 563 West 29th Street (1930)
 - Auto repair shops/garages (516-520 West 29th Street [1938, 2002 to 2005, 2010], 522-532 West 29th Street [1930, 1963-2001], 539 West 28th Street [1930], 546 West 29th Street [1930], 548 West 29th Street [1976 to 2006], 312 Eleventh Avenue [1930 to 2005])
 - A planing mill (lumber) and box factory located at 547-557 West 28th Street (1890 to 1911)
 - A light manufacturer (1956) and chemical dying factory (1968) located at 515 West 29th Street
 - A chemical corporation located at 533 West 29th Street (1920)

- A motor freight station at 529-537 West 29th Street (1950 to 1991)

Multiple surrounding properties are subject to environmental regulatory oversight through the OER and NYSDEC based on historic site use or documented contamination. Adjacent and surrounding sites with environmental regulatory oversight include: Avalon West Chelsea (282 Eleventh Avenue), Midtown Center Auto (548 West 29th Street), 534 West 29th Street (VCP Site No. 14CVCP199M), 550 West 29th Street (Voluntary Cleanup Program [VCP] Site No. 15CVCP060M) and 522-532 West 29th Street (VCP Site No. 13CVCP151M). Publicly available documents associated with these sites reported petroleum and chlorinated solvent impacts in soil, groundwater and/or soil vapor that may have contributed to the documented contamination at the Subject Property.

- BER 1 – E-Designation: The Subject Property is listed with an environmental ‘E’ designation (E-142) for hazardous materials, noise (window wall attenuation and alternative means of ventilation), and air quality resulting from the June 23, 2005 High Line/ West Chelsea rezoning (CEQR #03DCP069M). Satisfaction of the ‘E’-Designation requirements is subject to review and approval by the NYC OER. If the Subject Property is remediated under the BCP, the NYC OER will defer to the NYSDEC for compliance with the E-Designation for hazardous materials.
- BER 2 - Historic Fill - Based on previous subsurface investigations performed at the Subject Property in 2014, 2016, and 2018, historic fill was identified at the Subject Property. Historic fill is typical in this area of NYC. The fill layer, predominately consisting of sand with varying amounts of gravel, silt, wood, brick, asphalt, concrete, ash, slag, and coal, extends to depths ranging from about 3 to 10 feet below grade surface. The presence of this material does not trigger a regulatory reporting requirement, but will require implementation of management and off-site disposal that can carry a cost premium as compared to clean native soil during any future site redevelopment that includes excavation and off-site disposal.

3.0 PHASE II FIELD INVESTIGATION

Subsurface field investigations were performed at the site in May 2014, June 2016, and in May/ June 2018. A description of the May 2014 and June 2016 field investigations performed at 542 West 29th Street (Lot 57) are summarized in Section 2.6 and previous reports are included in Appendix A. In May/ June 2018, Langan performed a Phase II field investigation at 538 (Lot 55) and 540 (Lot 56) West 29th Street. The May/ June 2018 Phase II ESI consisted of the following:

1. Geophysical survey to identify subsurface anomalies consistent with utilities, substructures, physical obstructions, and USTs, and to pre-clear soil boring locations;
2. Advancement of six soil borings (SB01 through SB06), and collection of 21 soil samples, including two field duplicate quality assurance/quality control (QA/QC) samples;

3. Installation of two temporary groundwater monitoring wells (TW03 and TW05) and collection of three groundwater samples, including one duplicate QA/QC sample; and
4. Installation of 2 sub-slab and 2 soil vapor probes (4 total) and collection of 4 soil vapor samples, and one ambient air sample.

A photograph log documenting the Phase II ESI is included as Appendix B.

3.1 Utility Mark-Out and Geophysical Investigation

Prior to beginning the field investigation, the New York One Call Center was contacted for Code 753 utility mark-outs. A geophysical investigation was implemented by NOVA Geophysical & Environmental, Inc. (NOVA) of Douglaston, New York. The survey used ground-penetrating radar (GPR) to identify potential USTs and locate buried utilities and substructures in the vicinity of each boring location. Borings were relocated as necessary to avoid subsurface utilities and other subsurface impediments. The results of the geophysical survey are provided in Appendix C.

3.2 Soil Investigation

A total of six soil borings (SB01 through SB06) were advanced by AARCO Environmental Services Corp. (AARCO) between May 31 and June 1, 2018. Boring locations were selected to provide sufficient site coverage and to evaluate the AOCs listed in Section 2.7. A direct-push Geoprobe[®] 420M limited access rig and direct-push Geoprobe[®] 6610DT rig were used to advance borings to 10 to 16 feet bgs, as summarized below:

- Borings SB01, SB02, and SB03 were advanced to about 10 feet bgs in the cellar of 538 West 29th Street (Lot 55) to characterize soil that was not previously sampled; and
- Borings SB04, SB05, and SB06 were advanced to about 16 feet bgs on the ground floor of 540 West 29th Street (Lot 56) to characterize soil that was not previously sampled.

Soil samples were collected continuously from surface grade to the final depth of each boring into 2-foot-long or 4-foot-long Macro-Core[®] samplers equipped with dedicated acetate liners. Recovered soil was screened for visual, olfactory, and instrumental evidence of environmental impacts and was visually classified for soil type, grain size, color, texture, and moisture content. Instrument screening for the presence of VOCs was performed with a PID equipped with a 10.6 electron volt (eV) lamp. Boring logs documenting these observations are included in Appendix D. Following sample collection, all borings were backfilled with clean soil cuttings.

Soil Sample Collection and Analysis

A total of 21 soil samples (including QA/QC samples) were collected for laboratory analysis. A minimum of three samples were collected from each boring; one from the shallow fill (0 to 2 feet bgs), one from the historic fill interval, and one from around 12 to 13 feet bgs or from native material if observed below fill at 13 to 14 feet bgs. Soil sample collection was generally biased

toward the intervals with the greatest evidence of environmental impacts (i.e., PID readings above background, staining, chemical/petroleum-like odors).

Grab samples submitted for VOC analysis were collected directly from the Geoprobe[®] acetate liner via laboratory-supplied Terra Core[®] soil sample kits. The sample containers were labeled, placed in a laboratory-supplied cooler, and packed with ice (to maintain a temperature of $4 \pm 2^\circ\text{C}$). The samples were relinquished, under standard chain-of-custody protocol, to a courier for delivery to Alpha Analytical Laboratories (Alpha), a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory in Westborough, Massachusetts.

Soil samples collected from soil borings SB01 through SB06 were analyzed for Target Compound List (TCL)/NYSDEC Part 375 List VOCs by USEPA Method 8260C, TCL/Part 375 SVOCs by USEPA Method 8270D, PCBs by USEPA Method 3546, Pesticides by USEPA Method 3546, herbicides by USEPA Method 8151A, and Target Analyte List (TAL)/Part 375 metals (including cyanide, hexavalent chromium and trivalent chromium) by USEPA Method 6010C. The approximate soil boring locations are shown on Figure 2 and a sample collection summary is provided as Table 1.

3.3 Groundwater Investigation

Langan field personnel documented the conversion of two soil borings (SB03 and SB05) into two temporary groundwater monitoring (TW03 and TW05) wells by AARCO. One groundwater sample was collected from each temporary monitoring well to characterize groundwater conditions and investigate potential groundwater impacts associated with identified AOCs.

Temporary monitoring wells TW03 and TW05 were constructed using 1-inch diameter polyvinyl chloride (PVC) riser pipes attached to 10-foot-long 0.02-inch slotted screens. The temporary monitoring wells were constructed so that the well screen straddled the observed groundwater table. The well annulus around the screen of each well was backfilled with No. 2 sand up to about the top of the screen. About 0.5- to 1-foot thick hydrated bentonite seal was installed above the sand pack, and the borehole annulus was backfilled with soil cuttings to the surface (TW05 only). Following installation, each temporary well was purged using a peristaltic pump until the water ran clear. Purged water was containerized in a labeled drum and stored on-site awaiting disposal at a facility permitted to accept the material. Following sampling activities, the temporary wells were removed, the boreholes were backfilled with No. 2 sand, sealed with bentonite, and the surrounding concrete cover was restored. Well construction logs are included as Appendix E.

Groundwater Sample Collection and Analysis

Groundwater samples were collected following development of temporary groundwater monitoring wells TW03 and TW05. Monitoring wells were sampled in accordance with the USEPA's low-flow groundwater sampling procedure to allow for collection of a representative sample ("Low Stress Purging and Sampling Procedure for the Collection of Groundwater

Samples from Monitoring Wells,” EQASOP-GW 001, January 19, 2010). Groundwater was purged from each well until groundwater parameters (pH, conductivity, turbidity, dissolved oxygen [DO], temperature, Nephelometric turbidity units [NTU], and oxidation-reduction potential [ORP]) had stabilized. At least three well casing volumes were purged from each well before samples were collected using a peristaltic pump and dedicated polyethylene tubing.

Three groundwater samples, including one duplicate sample, were collected into labeled, laboratory-supplied glassware and delivered via courier service to Alpha for analysis of TCL/Part 375 VOCs by USEPA Method 8260C, TCL/Part 375 SVOCs by USEPA method 8270D, PCBs by USEPA Method 3546, Pesticides by USEPA Method 3546, herbicides by USEPA Method 8151A, and TAL/Part 375 metals (total and dissolved, including cyanide, trivalent and hexavalent chromium) by EPA method 6010C. The approximate groundwater monitoring well locations are shown on Figure 2 and groundwater sampling logs are included in Appendix E.

3.4 Soil Vapor and Sub-Slab Soil Vapor Investigation

Langan documented installation of two soil vapor probes (SV01 and SV03) and two sub-slab soil vapor probes (SV02 and SV04) by AARCO. Sub-slab soil vapor probes SV02 and SV04 were installed immediately below the cellar slab of 538 West 29th Street (Lot 55) using a portable electric rig. Soil vapor probes SV01 and SV03 were installed from the first floor of 540 West 29th Street (Lot 56) using a direct-push Geoprobe[®] 6610DT track-mounted drill rig. Soil vapor probes comprised of a 1 7/8-inch polyethylene implant threaded into 3/16-inch-diameter polyethylene tubing and were installed in accordance with the last revised May 2017 NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York. The annulus of each probe was filled with No. 2 sand followed by hydrated bentonite seal to surface grade.

Soil Vapor, Sub-Slab Soil Vapor, and Ambient Air Sample Collection and Analysis

As a QA/QC measure, an inert tracer gas (helium) was introduced into an above-grade sampling chamber to verify that the soil vapor and sub-slab vapor probes were properly sealed above the target sampling depth, thereby preventing subsurface infiltration of ambient air. Helium concentrations of less than 10 percent in the sample train confirmed the integrity of the seal. The tracer gas test was performed on the same day as the sampling at each probe.

Each soil vapor probe was purged using a MultiRAE meter at a rate of 0.2 liters per minute (L/min) to evacuate a minimum of three sampling tube volumes prior to sample collection. The purged soil vapor was also monitored for VOCs and the value was recorded. After purging was complete, soil vapor samples were collected into laboratory-supplied, batch-certified, 2.7-Liter Summa[®] canisters that were calibrated for a sample rate of about 0.05 L/min over about 120 minutes of sampling. For QA/QC purposes, one ambient air sample was collected from the north-adjointing sidewalk to analyze ambient air conditions and determine whether conditions existed on the site during soil vapor sampling that could have potentially interfered with sampling results. Following sample collection, the labeled canisters were picked up and delivered via courier service to Alpha

under standard chain-of-custody protocol. Soil vapor and ambient air samples were analyzed for VOCs by EPA method TO-15. Soil vapor, sub-slab soil vapor and ambient air results are shown on Figure 6. Soil vapor and sub-slab soil vapor sampling logs are included in Appendix F.

4.0 OBSERVATIONS AND RESULTS

This section summarizes the field observations and laboratory analytical results from the May 2014 Phase II ESI, April 2016 RI, and the May-June 2018 Phase II field investigation (cumulatively referred to as the “site investigations”). Soil analytical results are compared to the 6 NYCRR Part 375 UU, Restricted Use Restricted-Residential (RURR) and Restricted Use Commercial (CU) SCOs. Groundwater analytical results are compared to the NYSDEC TOGS Class GA SGVs. Soil vapor sample results are compared to either ambient outdoor air, ambient indoor air and/or the decisions matrices provided in May 2017 update to the 2006 NYSDOH AGVs Soil Vapor Intrusion Guidance.

A summary of the soil, groundwater, and soil vapor samples collected during the site investigations is included in Table 1. Copies of the laboratory analytical reports are included in Appendix A (May 2014 Phase II ESI and April 2016 RI) and Appendix G (May/ June 2018 Phase II field investigation). Summaries of the analytical results for the soil, groundwater, and soil vapor samples are provided in the following tables:

- Table 2A - Soil Sample Analytical Results – Volatile Organic Compounds
- Table 2B - Soil Sample Analytical Results- Semivolatile Organic Compounds, Pesticides, Herbicides, PCBs and Metals
- Table 3 - Groundwater Sample Analytical Results
- Table 4 - Soil Vapor, Indoor Air, and Ambient Air Sample Analytical Results
- Table 5 - Quality Assurance/ Quality Control Sample Results Summary

4.1 Geophysical Survey

The April 2016 geophysical survey was conducted using GPR across 542 West 29th Street (Lot 57). No anomalies consistent with USTs were identified.

The geophysical survey identified several scattered anomalies across the footprints of 538 (Lot 55) and 540 (Lot 56) West 29th Street; the majority of identified anomalies were consistent with utilities (i.e., electric, telecom, gas, sewer line and water line). A sump pump was identified in the northwest corner of the cellar in 538 West 29th Street (Lot 55). Anomalies consistent with USTs were not observed. A copy of the May/June 2018 geophysical report is included in Appendix C.

4.2 Subsurface Observations

Provided below is a description of the geologic and hydrogeologic observations made during the site investigations. Soil boring logs are provided in Appendix A (May 2014 Phase II ESA and April 2016 RI) and Appendix D (May/ June 2018 Phase II field investigation).

Stratigraphy

Historic fill material was encountered immediately beneath the building foundation slabs and extends to depths varying from about 7.5 to 10 feet bgs at 540 West 29th Street (Lots 56), and from about 3 to 9 feet bgs at 542 West 29th Street (Lot 57). Historic fill material was encountered below the cellar slab at 538 West 29th Street (Lot 55) at depths ranging from 3 to 5 feet below cellar grade. The historic fill predominately consists of brown fine- to medium-grained sand with varying amounts of gravel, concrete, asphalt, charcoal, slag, ash, wood, brick, and glass. The fill layer is underlain by native soils typically consisting of reddish-brown to olive, fine- to medium-grained silty sand with varying amounts of gravel and silt.. The sand generally extended to the termination depth of each boring advanced during the environmental investigations. Bedrock was not encountered during previous environmental investigations, but in general is found about 20 to 30 feet bgs in this area of Manhattan. This stratigraphy was generally consistent across the site.

Petroleum-like impacts, evidenced by odors, staining and/or PID readings above background levels were observed at similar depths in two of the six soil borings advanced during the May/ June 2018 Phase II field investigation. Impacts were not observed in the May 2014 Phase II ESI or the April 2016 RI. The depth intervals at which petroleum impacts were apparent with the highest recorded PID readings are provided in the following table:

Soil Boring ID	Depth Interval of Observed Impacts	Max PID Reading (ppm)	Impacts Observed	Soil Boring Location
SB03	0 to 10 feet below cellar grade	408 (4 to 5 feet below cellar grade)	Petroleum-like odors	538 West 29 th Street (Lot 55, cellar)
SB06	14 to 15 feet bgs	1.6 (14 to 15 feet bgs)	Petroleum-like odors, staining	540 West 29 th Street (Lot 56, first floor)

ppm = parts per million

Hydrogeology

Synoptic groundwater level measurements were collected on May 7, 2016 and June 1, 2018 from monitoring wells installed within 542 West 29th Street and from two temporary monitoring wells located within 538 and 540 West 29th Street. Groundwater was encountered at depths ranging from 3.2 feet below cellar grade at 538 West 29th Street (Lot 55), 9.2 to 11 feet bgs at 540 West 29th Street (Lot 56) and from 8 to 11.51 feet bgs at 542 West 29th Street (Lot 57).

Prior to sampling, monitoring wells were gauged for the presence of free product (i.e., light, non-aqueous phase liquid [LNAPL]) with an oil-water interface probe. Free product was not detected; however, petroleum-like odors were observed in purged groundwater generated from TW03

during the May/ June 2018 Phase II field investigation. Monitoring well headspace PID measurements ranged from 0.0 to 47.9 ppm during sampling.

4.3 Analytical Results

4.3.1 Soil Sample Results

A summary of laboratory detections for soil samples collected during the site investigations, with comparisons to NYSDEC Part 375 UU, RURR, and CU SCOs, is provided in Table 2A and 2B. Copies of the laboratory analytical reports are included in Appendix A (May 2014 Phase II ESI and April 2016 RI) and Appendix G (May/ June 2018 Phase II field investigation). Soil sample results that exceed UU, RURR and/or CU SCOs for samples collected are shown on Figure 3.

The following sections present a summary of concentrations that exceeded their respective UU, RURR and/or CU SCOs, organized by analytical parameter. Analytes detected above the UU SCOs are listed below, those above the RURR SCOs shown as **bold**, and those above CU SCOs shown as **bold and underlined**.

VOCs

Parameter	Range of Concentrations Detected above SCO		UU, RURR and CU SCOs
	Low	High	
Acetone*	0.061 milligrams per kilogram (mg/kg) in SB06_6-8	74 mg/kg in SB-2(1.5-3.5)	UU: 0.05 mg/kg RURR: 100 mg/kg CU: 500 mg/kg
Benzene	0.18 mg/kg in SB03_0-1**	0.66 mg/kg in SB04_1-3	UU: 0.06 mg/kg RURR:4.8 mg/kg CU: 44 mg/kg
n-Propylbenzene	8.2 mg/kg in SB03_3-4**		UU: 3.9 mg/kg RURR: 100 mg/kg CU: 500 mg/kg
Total xylenes	0.53 mg/kg in SB03_0-1**		UU: 0.26 mg/kg RURR: 100 mg/kg CU: 500 mg/kg

*Acetone is a common laboratory contaminant and therefore, its presence in soil results is not likely representative of site conditions.

** Soil Boring SB03 Installed on May 31, 2018 within the cellar of 538 West 29th Street (Lot 55).

SVOCs

Parameter	Range of Concentrations Detected above SCO		UU, RURR and CU SCOs
	Low	High	
Benzo(a)anthracene	1.3 mg/kg in SB04_6-8	25 mg/kg in SB01_0-2*	UU: 1 mg/kg RURR: 1 mg/kg CU: 5.6 mg/kg
Benzo(a)pyrene	1.1 mg/kg in SB04_6-8	17 mg/kg in SB01_0-2*	UU: 1 mg/kg RURR: 1 mg/kg CU: 1 mg/kg
Benzo(b)fluoranthene	1.01 mg/kg in SP-3 (0-2)	23 mg/kg in SB01_0-2*	UU: 1 mg/kg RURR: 1 mg/kg CU: 5.6 mg/kg
Benzo(k)fluoranthene	0.895 mg/kg in SP-5 (10-12)	4.4 mg/kg in SBDUP01_053118**	UU: 0.8 mg/kg RURR: 3.9 mg/kg CU: 56 mg/kg
Chrysene	1.5 mg/kg in SB04_6-8	25 mg/kg in SB01_0-2*	UU: 1 mg/kg RURR: 3.9 mg/kg CU: 56 mg/kg
Dibenzo(a)anthracene	0.565 mg/kg in SP-2 (0-2)	2.3 mg/kg in SB01_0-2*	UU: 0.33 mg/kg RURR: 0.33 mg/kg CU: 0.56 mg/kg
Indeno(1,2,3-cd)pyrene	0.71 mg/kg in SB04_6-8	10 mg/kg in SB01_0-2*	UU: 0.5 mg/kg RURR: 0.5 mg/kg CU: 5.6 mg/kg

* Soil samples within the cellar of 538 West 29th Street (Lot 55).

**=SBDUP01_053118 is a duplicate of the parent sample SB01_0-2.

Pesticides, Herbicides and PCBs

Pesticides, herbicides and PCBs were not detected at concentrations above Part 375 UU SCOs.

Metals

Parameter	Range of Concentrations Detected above SCO		UU, RURR and CU SCOs
	Low	High	
Arsenic	13.5 mg/kg in SP-4 (0-2)	15.2 mg/kg in SP-3 (0-2)	UU: 13 mg/kg RURR: 16 mg/kg CU: 16 mg/kg
Barium	506 mg/kg in SP-1 (4-6)	587 mg/kg in SP-3 (0-2)	UU: 350 mg/kg RURR: 400 mg/kg CU: 400 mg/kg

Parameter	Range of Concentrations Detected above SCO		UU, RURR and CU SCOs
	Low	High	
Cadmium	3.7 mg/kg in SP-1 (4-6)	8.25 mg/kg in SP-3 (0-2)	UU: 2.5 mg/kg RURR: 4.3 mg/kg CU: 9.3 mg/kg
Copper	58.2 mg/kg in SP-2 (0-2)	6,370 mg/kg in SP-3 (0-2)	UU: 50 mg/kg RURR: 270 mg/kg CU: 270 mg/kg
Hexavalent Chromium	1.96 mg/kg in SP-3 (10-12)		UU: 1 mg/kg RURR: 110 mg/kg CU: 400 mg/kg
Lead	135 mg/kg in SB04_1-3	5,650 mg/kg in SB-05 (7-8)	UU: 63 mg/kg RURR: 400 mg/kg CU: 1,000 mg/kg
Mercury	0.22 mg/kg in SB04_1-3	7.39 mg/kg in SP-5 (10-12)	UU: 0.18 mg/kg RURR: 0.81 mg/kg CU: 2.8 mg/kg
Nickel	30.1 mg/kg in SP-5 (10-12)	114 mg/kg in SP-1 (4-6)	UU: 30 mg/kg RURR: 310 mg/kg CU: 310 mg/kg
Selenium	5.48 mg/kg in SP-1 (4-6)		UU: 3.9 mg/kg RURR: 180 mg/kg CU: 1,500 mg/kg
Zinc	210 mg/kg in SP-2 (0-2)	3,000 mg/kg in SB05_7-8	UU: 109 mg/kg RURR: 10,000 mg/kg CU: 10,000 mg/kg

4.3.2 Groundwater Sample Results

A summary of the groundwater sample laboratory detections compared to TOGS 1.1.1 Class GA SGVs is presented in Table 3. Groundwater sample locations and results that exceed their respective TOGS Class GA SGVs are presented on Figure 5. Copies of the laboratory analytical reports are included in Appendix A (May 2014 Phase II ESI and April 2016 RI) and Appendix G (May/ June 2018 Phase II field investigation).

The following is a summary of groundwater sample results that exceed the TOGS SGVs organized by analytical parameter set:

VOCs

Parameter	Range of Concentrations Detected above TOGS Class GA SGV		TOGS Class GA SGV
	Low	High	
1,2,4,5-Tetramethylbenzene	55 µg/L in TW03_060118		5 µg/L
1,2,4-Trimethylbenzene	49 µg/L in TW03_060118		5 µg/L
Benzene	1.4 µg/L in SB-1(GW)	46 µg/L in TW03_060118	1 µg/L
Ethylbenzene	13 µg/L in TW03_060118		5 µg/L
Isopropylbenzene	34 µg/L in TW03_060118		5 µg/L
Methyl tert butyl ether	11 µg/L in SB-1 (GW)		10 µg/L
Naphthalene	32 µg/L in TW03_060118		10 µg/L
n-Butylbenzene	11 µg/L in TW03_060118		5 µg/L
n-Propylbenzene	79 µg/L in TW03_060118		5 µg/L
sec-Butylbenzene	8.5 µg/L in TW03_060118		5 µg/L

SVOCs

Parameter	Range of Concentrations Detected above TOGS Class GA SGV		TOGS Class GA SGV
	Low	High	
Benzo(a)anthracene	0.05 µg/L in TW03_060118	0.27 µg/L in MW-3	0.002 µg/L
Benzo(a)pyrene	0.168 µg/L in MW-3		0.002 µg/L
Benzo(b)fluoranthene	0.168 µg/L in MW-3		0.002 µg/L
Benzo(k)fluoranthene	0.158 µg/L in MW-3		0.002 µg/L
Chrysene	0.05 µg/L in TW03_060118	0.211 µg/L in MW-3	0.002 µg/L
Indeno(1,2,3-cd)pyrene	0.126 µg/L in MW-3		0.002 µg/L

Pesticides, Herbicides and PCBs

Pesticides, herbicides and PCBs were not detected at concentrations above TOGS Class GA SGVs.

Total Metals

Parameter	Range of Concentrations Detected above TOGS Class GA SGV		TOGS Class GA SGV
	Low	High	
Arsenic	164 µg/L in MW-3	911 µg/L in MW-2	25 µg/L
Copper	229 µg/L in MW-1		200 µg/L
Iron	1,910 µg/L in MW-2	22,600 µg/L in TW03_060118	300 µg/L
Lead	177 µg/L in MW-1	495 µg/L in MW-3	25 µg/L
Magnesium	69,600 µg/L in TW05_060118	91,500 µg/L in MW-2	35,000 µg/L
Manganese	2,882 µg/L in TW03_060118	10,960 µg/L in TW05_060118	300 µg/L
Selenium	16 µg/L in MW-1		10 µg/L
Sodium	438,000 µg/L in MW-3	618,000 µg/L in TW05_060118	20,000 µg/L
Thallium	6 µg/L in MW-3	13 µg/L in MW-2	0.5 µg/L

Dissolved Metals

Parameter	Range of Concentrations Detected above TOGS Class GA SGV		TOGS Class GA SGV
	Low	High	
Arsenic	111 µg/L in MW-3	468 µg/L in MW-2	25 µg/L
Iron	4,370 µg/L in TWDUP01_060118*	14,800 µg/L in TW03_060118	300 µg/L
Magnesium	70,800 µg/L in TW05_060118	82,900 µg/L in MW-2	35,000 µg/L
Manganese	1,830 µg/L in MW-3	11,740 µg/L in TW05_060118	300 µg/L
Selenium	12 µg/L in MW-3	17 µg/L in MW-1	10 µg/L
Sodium	376,000 µg/L in MW-2	602,000 µg/L in TW05_060118	20,000 µg/L
Thallium	11 µg/L in MW-1	15 µg/L in MW-2	0.5 µg/L

*TWDUP01_060118 is a duplicate of the parent sample TW05_060118

4.3.3 Soil Vapor Sample Results

The following samples were collected and submitted for laboratory analysis of United States EPA TO-15 VOCs during the site investigations:

- Three sub-slab soil vapor samples, three co-located indoor ambient air samples, and one outdoor ambient air sample (May 2014 Phase II ESA);
- Two soil vapor and one indoor ambient air samples (April 2016 RI); and
- Two sub-slab, two soil vapor, and one outdoor ambient air sample (May/June 2018 Phase II field investigation).

Total VOC concentrations in soil vapor samples ranged from 101.06 $\mu\text{g}/\text{m}^3$ in SV-1 (Lot 57) to 519,247 $\mu\text{g}/\text{m}^3$ in SV04 (Lot 55). Chlorinated VOC (CVOC) impacts were identified in soil vapor samples collected across the site, with the highest concentrations located in the southern and southeast portions of the site.

No standard currently exists for soil vapor samples in New York State. For reference, soil vapor samples were compared to NYSDOH AGVs. The maximum detected concentrations above AGVs of TCE and PCE in soil vapor were 6.9 $\mu\text{g}/\text{m}^3$ and 317 $\mu\text{g}/\text{m}^3$, respectively. In addition, methylene chloride was detected at a maximum concentration of 110 $\mu\text{g}/\text{m}^3$ at SV02 in exceedance of its associated AGV of 60 $\mu\text{g}/\text{m}^3$.

Petroleum-related VOCs (e.g., benzene, toluene, ethylbenzene, and total xylenes [BTEX]) were detected in soil vapor samples at concentrations above those detected in the ambient air samples. BTEX concentrations detected in soil vapor ranged from non-detect in samples SS-1, SV-1, and SV-2 (Lot 57) to 34,240 $\mu\text{g}/\text{m}^3$ in SV04 (Lot 56).

Where indoor air and sub-slab vapor samples were collected, the NYSDOH decision matrices were used to evaluate recommended actions (e.g., monitor, mitigate). The NYSDOH decision matrix recommendations include "No Further Action" for detected compounds.

5.0 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

The conclusions presented below are based on data collected during the site investigations. The findings summarized herein are based on both qualitative data (field observations and instrumental readings), and laboratory analytical soil, groundwater, and soil vapor results. Findings and conclusions are as follows:

- Stratigraphy: Historic fill material was encountered immediately beneath the building foundation slabs and extends to depths varying from about 7.5 to 10 feet bgs at 540 West 29th Street (Lots 56), and from about 3 to 9 feet bgs at 542 West 29th Street (Lot 57). Historic fill material was encountered below the cellar slab at 538 West 29th Street (Lot 55) at depths ranging from 3 to 5 feet below cellar grade. The historic fill predominately consists of brown fine- to medium-grained sand with varying amounts of gravel, concrete, asphalt, charcoal, slag, ash, wood, brick, and glass. The layer of historic fill is typical for this area of NYC. The fill layer is underlain by native soils typically consisting of reddish-brown to olive, fine- to medium-grained silty sand with varying

amounts of gravel and silt. Petroleum impacts, evidenced by odors, staining, and/or PID readings above background levels, were apparent in two soil borings (SB03 and SB06) at depths ranging from about 0 to 10 feet bgs and 14 to 15 feet bgs, respectively.

- Groundwater: Groundwater was encountered at depths ranging from 3.2 feet below cellar grade at 538 West 29th Street (Lot 55), 9.2 to 11 feet bgs at 540 West 29th Street (Lot 56) and from 8 to 11.51 feet bgs at 542 West 29th Street (Lot 57). Based on the well gauging results, groundwater appears to flow west toward the Hudson River, which is relatively consistent with regional topography.
- Analytical Results
 - Soil: Soil samples were analyzed for VOCs, SVOCs, PCBs, pesticides and metals and compared to Part 375 UU, RURR and CU SCOs. The historic fill contains SVOCs and metals at concentrations above UU, RURR and/or CU SCOs. VOCs were also identified within the historic fill, but are likely associated with petroleum releases from historical uses of the site and surrounding sites. Petroleum-related VOCs were detected in two soil borings (SB03 and SB04) collected from 0 to 4 feet bgs and 1 to 3 feet bgs, respectively, at concentrations exceeding UU SCOs.
 - Groundwater: VOCs, SVOCs, and metals (total and dissolved) were detected at concentrations above the TOGS Class GA SGVs in multiple groundwater samples collected from across the site footprint. Petroleum-related VOCs were detected in groundwater at concentrations exceeding TOGS Class GA SGVs at wells located in the southern and southeastern portions of the site. An elevated headspace reading and petroleum-like odors were observed in the monitoring well TW03 (47.9 parts per million [ppm]). The SVOCs are attributed to entrained sediment in the groundwater samples and the metals are attributed to regional conditions or the historic fill.
 - Soil Vapor: Elevated BTEX compounds above background levels were detected in soil vapor samples throughout the site. BTEX concentrations detected in soil vapor ranged from non-detect in samples SS-1, SV-1, and SV-2 (Lot 57) to 34,240 $\mu\text{g}/\text{m}^3$ in SV04 (Lot 56). Chlorinated VOC (CVOC) impacts were identified in soil vapor samples collected across the site, with the highest concentrations located in the southern and southeast portions of the site. Total VOCs in soil vapor samples ranged from 101.06 $\mu\text{g}/\text{m}^3$ in SV-1 (Lot 57) to 519,247 $\mu\text{g}/\text{m}^3$ in SV04 (Lot 56)
- Spill Condition: Based on the field observations and analytical results of soil, soil vapor and groundwater sampling at the site, two petroleum spills were reported to the NYSDEC for Lot 55 (Spill No. 1805506- 538 West 29th Street) and Lot 56 (Spill No. 1805508- 540 West 29th Street).

Recommendations

We understand that the Subject Property will be entered into the New York State Brownfield Cleanup Program (BCP) as a Volunteer in conjunction with future site development. Following review and approval of the BCP application, the Subject Property will be investigated and remediated under the oversight of the NYSDEC. Through the BCP, the remedy is expected to be fully protective of public health and the environment in accordance with NYSDEC requirements.

Future development excavation, which is anticipated to extend to bedrock, will be conducted in accordance with a NYSDEC-approved Remedial Action Work Plan (RAWP) and site-specific Construction Health and Safety Plan (CHASP). Excess soil generated as part of future development will be categorized as an NYSDEC Part 360 regulated solid waste. Excavated material should be characterized, handled, and disposed of in accordance with applicable local, state, and federal regulations.

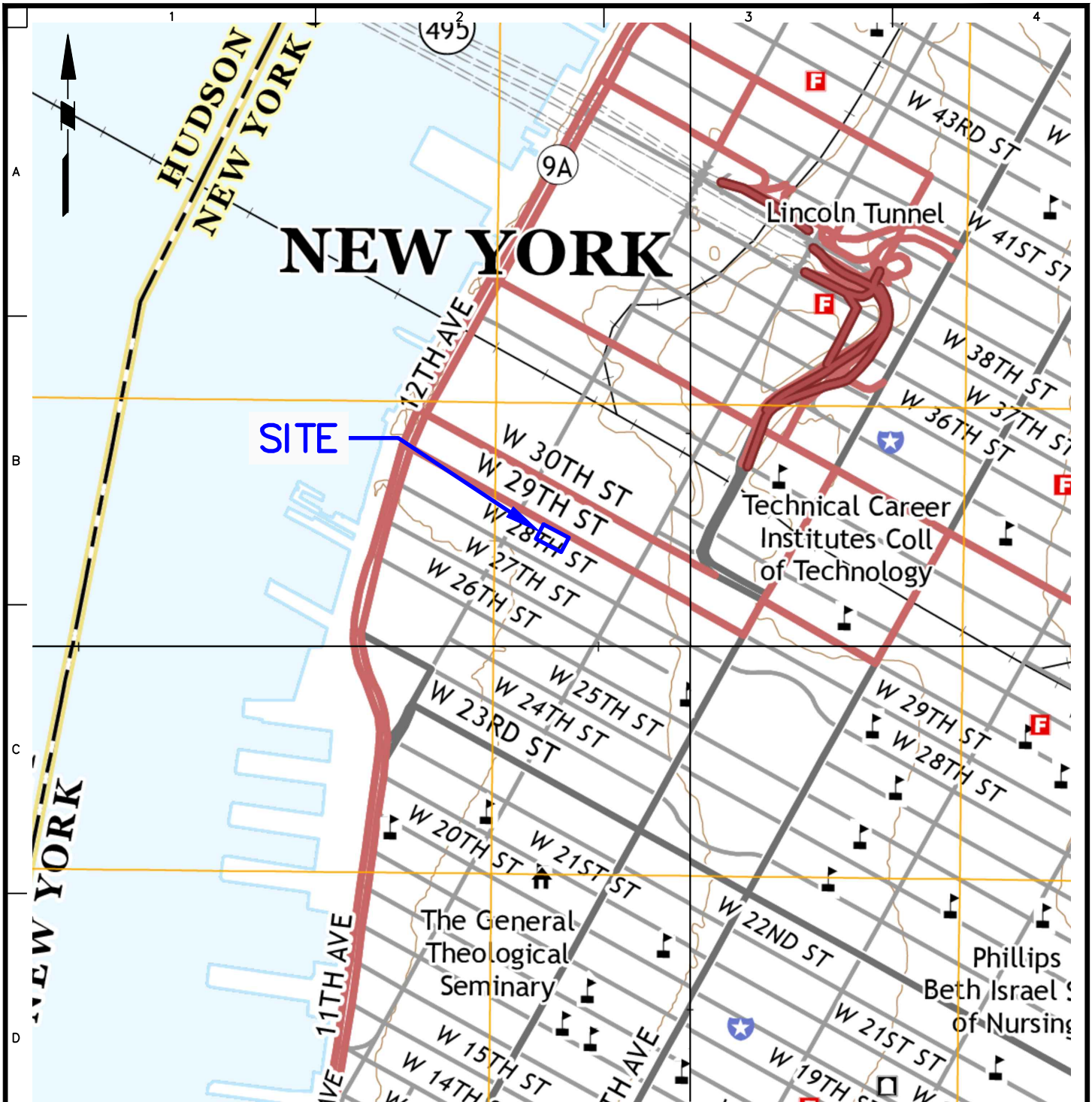
Dewatering is anticipated for the future development and should be conducted in accordance with New York City Department of Environmental Protection (NYCDEP) discharge requirements.

6.0 LIMITATIONS

This Phase II ESI report was prepared expressly for W29 Owner LLC for the proposed development project at 538-542 West 29th Street, Manhattan, New York and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals that were provided by "the Client". Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions and opinions.

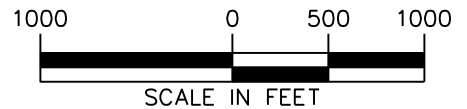
FIGURES



NOTES:

1. SITE BOUNDARY IS APPROXIMATE.
2. BASE MAP TAKEN FROM UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE TOPOGRAPHIC MAPS FOR THE BROOKLYN, CENTRAL PARK, JERSEY CITY AND WEEHAWKEN QUADRANGLES, DATED 2016.

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.



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Project

**538-542 WEST
29TH STREET**

BLOCK No. 700, LOT Nos. 55,
56 & 57

NEW YORK

NEW YORK

Figure Title

**SITE
LOCATION
MAP**

Project No.

170515401

Date

10/19/2018

Drawn By

KN

Checked By

ELS


Figure No.

1

Sheet 1 of 6

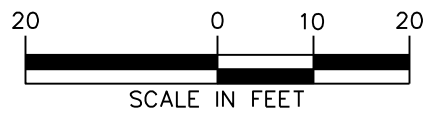
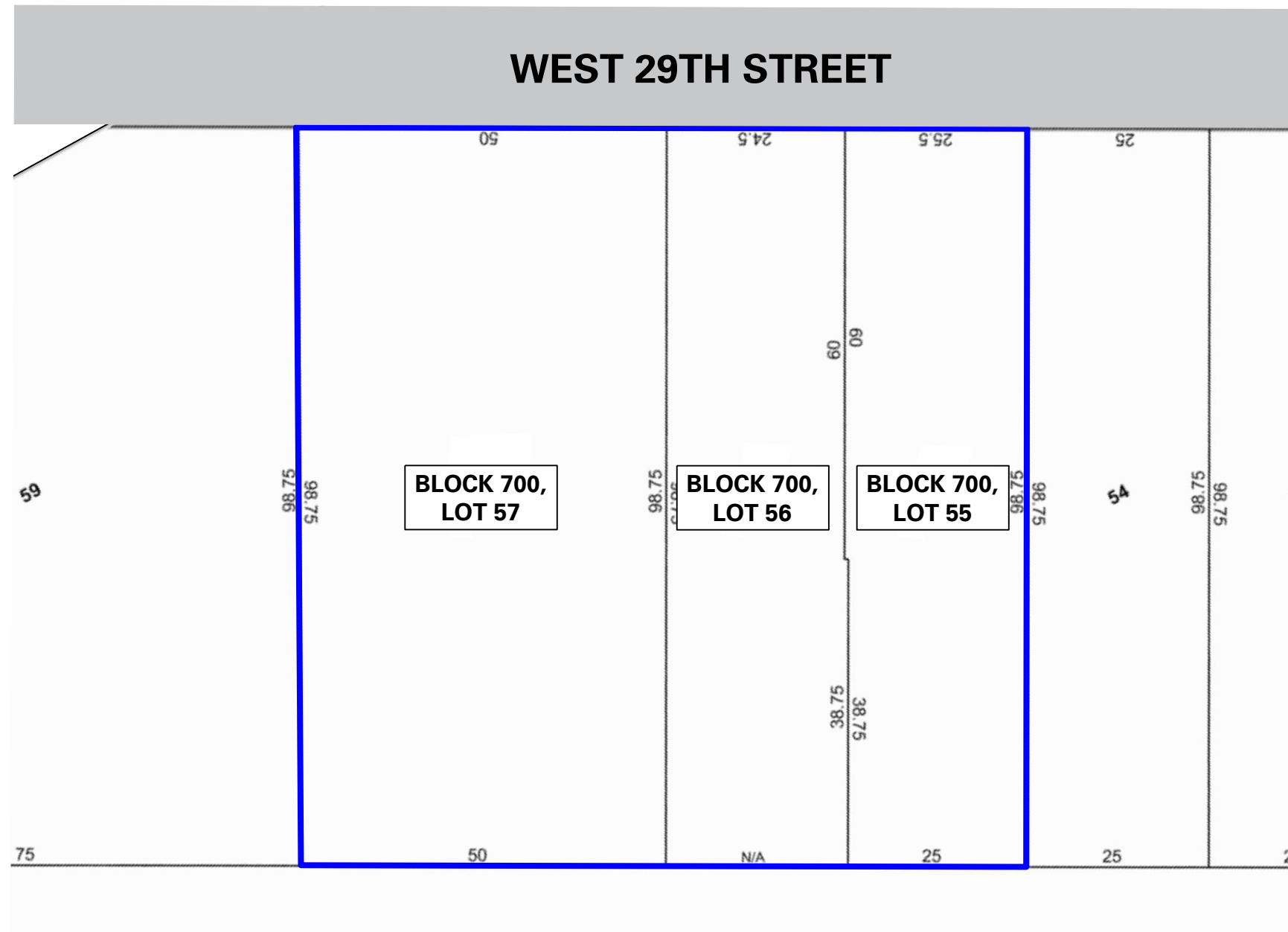


LEGEND:

 APPROXIMATE SITE BOUNDARY

NOTE:

- 1. BASE MAP TAKEN FROM [HTTP://GIS.NYC.GOV/TAXMAP/MAP.HTM](http://gis.nyc.gov/taxmap/map.htm)



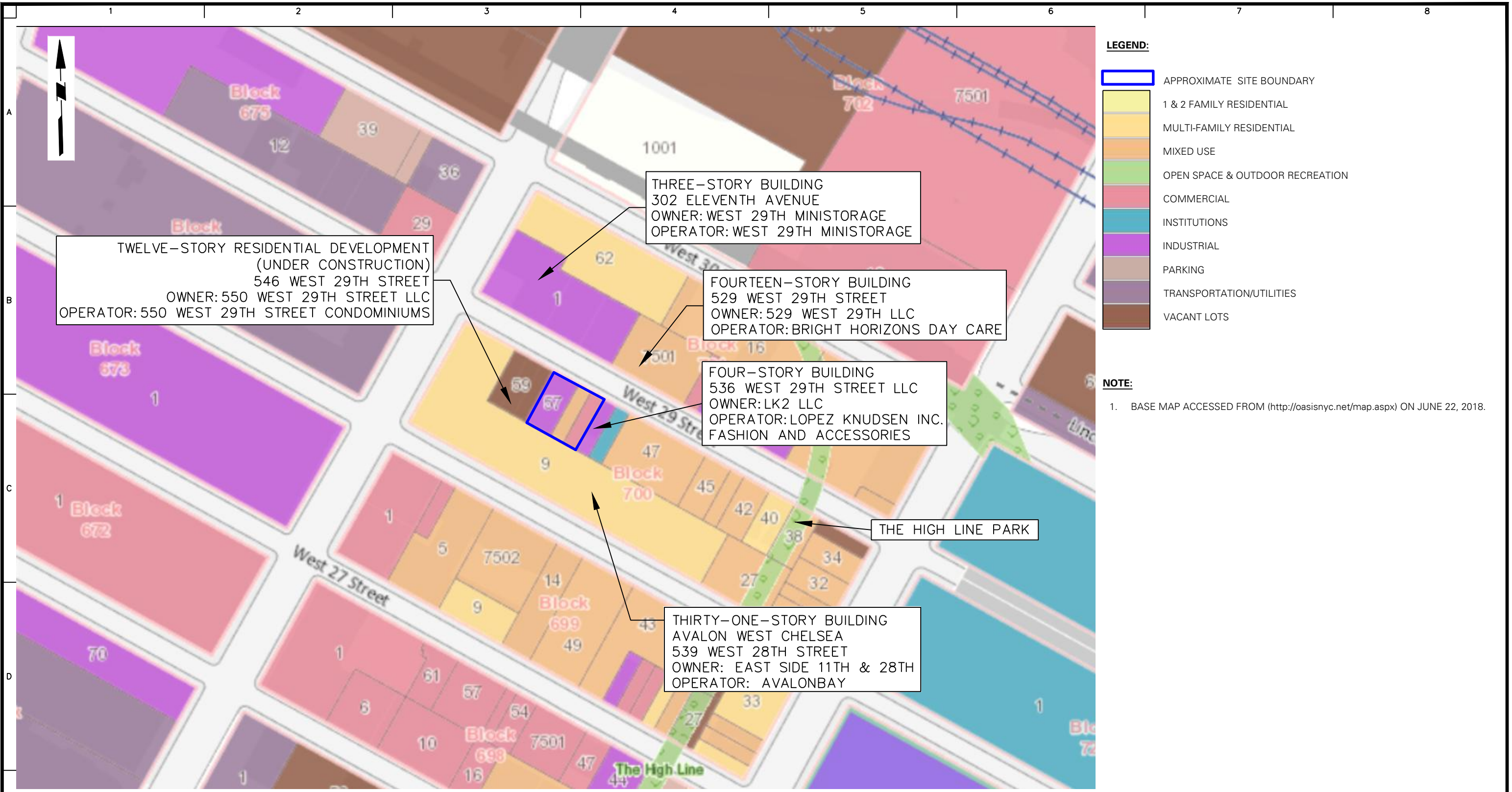
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Project
538-542 WEST 29TH STREET
BLOCK No. 700, LOT Nos. 55, 56, 57
NEW YORK NEW YORK

Figure Title
SITE PLAN

Project No.
170515401
Date
10/25/2018
Drawn By
KN
Checked By
ES

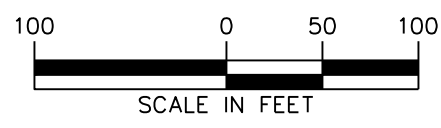
Figure No.
2
Sheet 2 of 6



LEGEND:

- APPROXIMATE SITE BOUNDARY
- 1 & 2 FAMILY RESIDENTIAL
- MULTI-FAMILY RESIDENTIAL
- MIXED USE
- OPEN SPACE & OUTDOOR RECREATION
- COMMERCIAL
- INSTITUTIONS
- INDUSTRIAL
- PARKING
- TRANSPORTATION/UTILITIES
- VACANT LOTS

NOTE:
 1. BASE MAP ACCESSED FROM (<http://oasisnyc.net/map.aspx>) ON JUNE 22, 2018.



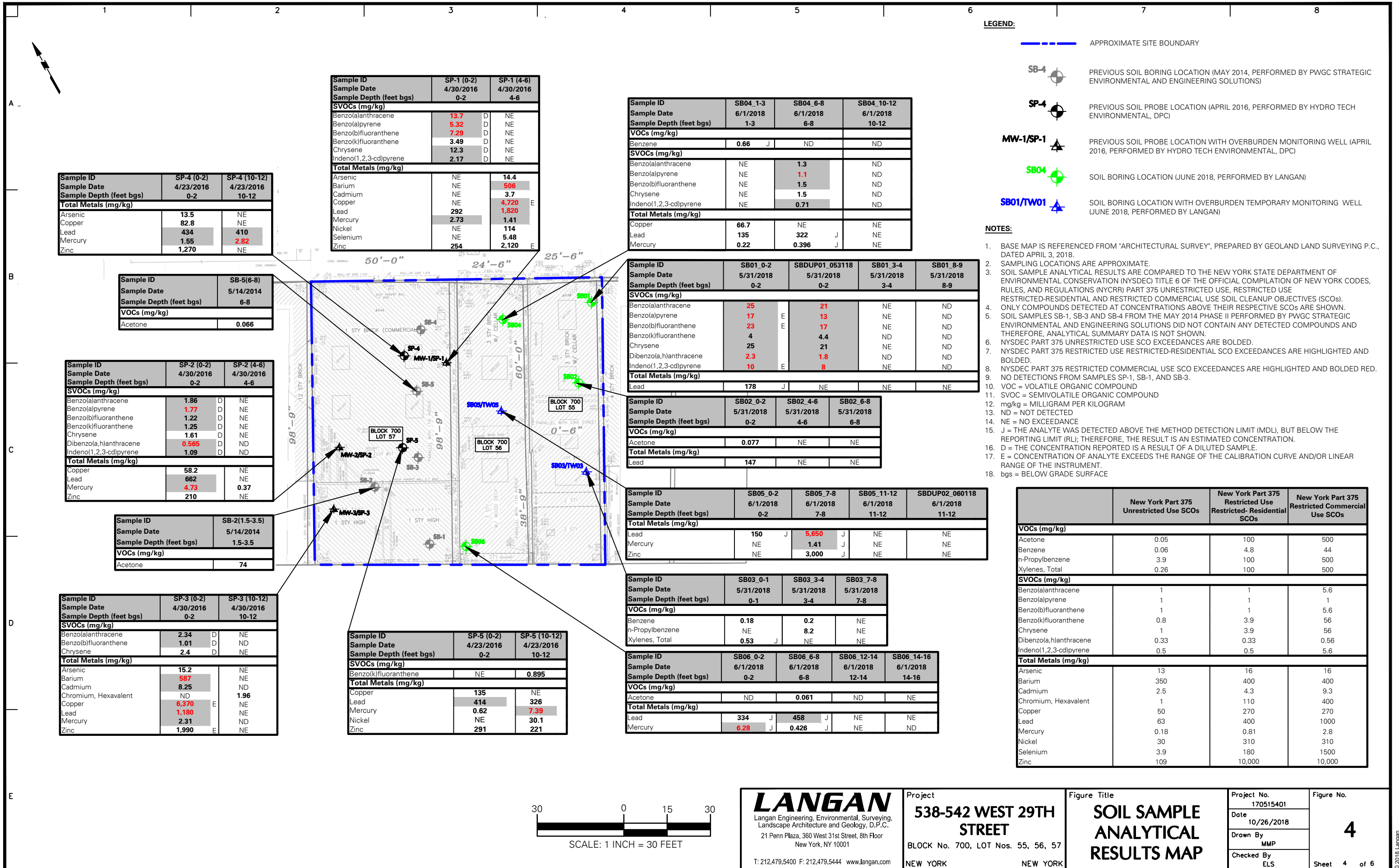
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Project
538-542 WEST 29TH STREET
 BLOCK No. 700, LOT Nos. 55, 56, 57
 NEW YORK NEW YORK

Figure Title
ADJOINING PROPERTIES AND SURROUNDING USES MAP

Project No.
170515401
 Date
10/25/2018
 Drawn By
MMP
 Checked By
ES

Figure No.
3
 Sheet 3 of 6



LEGEND:

- APPROXIMATE SITE BOUNDARY
- PREVIOUS SOIL BORING LOCATION (MAY 2014, PERFORMED BY PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS)
- PREVIOUS SOIL PROBE LOCATION (APRIL 2016, PERFORMED BY HYDRO TECH ENVIRONMENTAL, DPC)
- PREVIOUS SOIL PROBE LOCATION WITH OVERBURDEN MONITORING WELL (APRIL 2016, PERFORMED BY HYDRO TECH ENVIRONMENTAL, DPC)
- SOIL BORING LOCATION (JUNE 2018, PERFORMED BY LANGAN)
- SOIL BORING LOCATION WITH OVERBURDEN TEMPORARY MONITORING WELL (JUNE 2018, PERFORMED BY LANGAN)

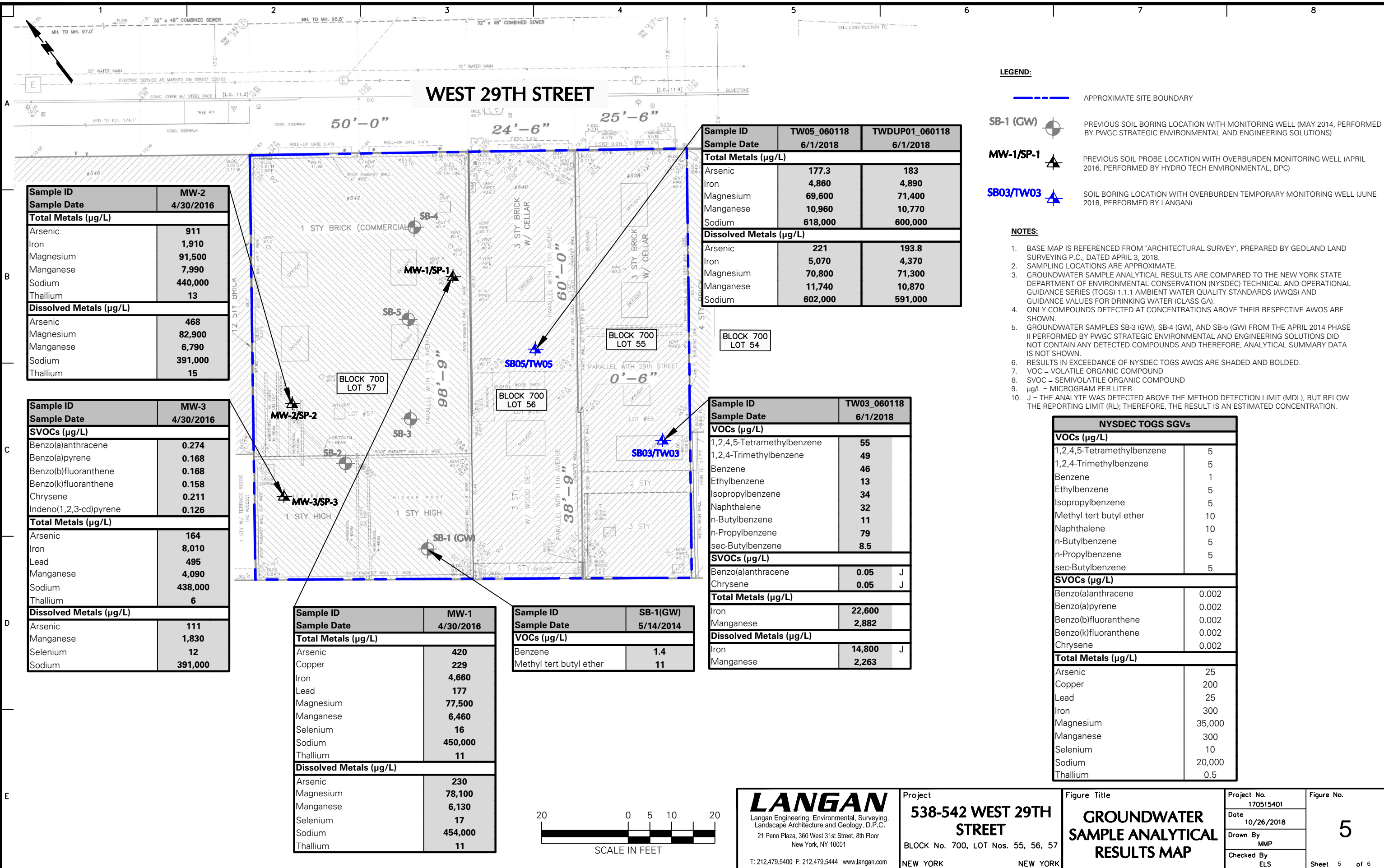
NOTES:

1. BASE MAP IS REFERENCED FROM "ARCHITECTURAL SURVEY", PREPARED BY GEOLAND LAND SURVEYING P.C., DATED APRIL 3, 2018.
2. SAMPLING LOCATIONS ARE APPROXIMATE.
3. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TITLE 6 OF THE OFFICIAL COMPILATION OF NEW YORK CODES, RULES, AND REGULATIONS (NYCRR) PART 375 UNRESTRICTED USE, RESTRICTED USE, RESTRICTED-RESIDENTIAL AND RESTRICTED COMMERCIAL USE SOIL CLEANUP OBJECTIVES (SCOs). ONLY COMPOUNDS DETECTED AT CONCENTRATIONS ABOVE THEIR RESPECTIVE SCOs ARE SHOWN.
4. SOIL SAMPLES SB-1, SB-3 AND SB-4 FROM THE MAY 2014 PHASE II PERFORMED BY PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS DID NOT CONTAIN ANY DETECTED COMPOUNDS AND THEREFORE, ANALYTICAL SUMMARY DATA IS NOT SHOWN.
5. NYSDEC PART 375 UNRESTRICTED USE SCO EXCEEDANCES ARE BOLDED.
6. NYSDEC PART 375 RESTRICTED USE RESTRICTED-RESIDENTIAL SCO EXCEEDANCES ARE HIGHLIGHTED AND BOLDED.
7. NYSDEC PART 375 RESTRICTED COMMERCIAL USE SCO EXCEEDANCES ARE HIGHLIGHTED AND BOLDED RED.
8. NO DETECTIONS FROM SAMPLES SP-1, SB-1, AND SB-3.
9. VOC = VOLATILE ORGANIC COMPOUND
10. SVOC = SEMIVOLATILE ORGANIC COMPOUND
11. mg/kg = MILLIGRAM PER KILOGRAM
12. ND = NOT DETECTED
13. NE = NO EXCEEDANCE
14. J = THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT (MDL), BUT BELOW THE REPORTING LIMIT (RL); THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION.
15. D = THE CONCENTRATION REPORTED IS A RESULT OF A DILUTED SAMPLE.
16. E = CONCENTRATION OF ANALYTE EXCEEDS THE RANGE OF THE CALIBRATION CURVE AND/OR LINEAR RANGE OF THE INSTRUMENT.
17. bgs = BELOW GRADE SURFACE

	New York Part 375 Unrestricted Use SCOs	New York Part 375 Restricted Use Restricted- Residential SCOs	New York Part 375 Restricted Commercial Use SCOs
VOCs (mg/kg)			
Acetone	0.05	100	500
Benzene	0.06	4.8	44
n-Propylbenzene	3.9	100	500
Xylenes, Total	0.26	100	500
SVOCs (mg/kg)			
Benzo(a)anthracene	1	1	5.6
Benzo(a)pyrene	1	1	1
Benzo(b)fluoranthene	1	1	5.6
Benzo(k)fluoranthene	0.8	3.9	56
Chrysene	1	3.9	56
Dibenzo(a,h)anthracene	0.33	0.33	0.56
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6
Total Metals (mg/kg)			
Arsenic	13	16	16
Barium	350	400	400
Cadmium	2.5	4.3	9.3
Chromium, Hexavalent	1	110	400
Copper	50	270	270
Lead	63	400	1000
Mercury	0.18	0.81	2.8
Nickel	30	310	310
Selenium	3.9	180	1500
Zinc	109	10,000	10,000



 Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project 538-542 WEST 29TH STREET BLOCK No. 700, LOT Nos. 55, 56, 57 NEW YORK NEW YORK	Figure Title SOIL SAMPLE ANALYTICAL RESULTS MAP	Project No. 170515401 Date 10/26/2018 Drawn By MMP Checked By ELS	Figure No. 4 Sheet 4 of 6
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LEGEND:

- APPROXIMATE SITE BOUNDARY
- SB-1 (GW) PREVIOUS SOIL BORING LOCATION WITH MONITORING WELL (MAY 2014, PERFORMED BY PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS)
- MW-1/SP-1 PREVIOUS SOIL PROBE LOCATION WITH OVERBURDEN MONITORING WELL (APRIL 2016, PERFORMED BY HYDRO TECH ENVIRONMENTAL, DPC)
- SB03/TW03 SOIL BORING LOCATION WITH OVERBURDEN TEMPORARY MONITORING WELL (JUNE 2018, PERFORMED BY LANGAN)

NOTES:

1. BASE MAP IS REFERENCED FROM "ARCHITECTURAL SURVEY", PREPARED BY GEOLAND LAND SURVEYING P.C., DATED APRIL 3, 2018.
2. SAMPLING LOCATIONS ARE APPROXIMATE.
3. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS (AWQS) AND GUIDANCE VALUES FOR DRINKING WATER (CLASS GA).
4. ONLY COMPOUNDS DETECTED AT CONCENTRATIONS ABOVE THEIR RESPECTIVE AWQS ARE SHOWN.
5. GROUNDWATER SAMPLES SB-3 (GW), SB-4 (GW), AND SB-5 (GW) FROM THE APRIL 2014 PHASE II PERFORMED BY PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS DID NOT CONTAIN ANY DETECTED COMPOUNDS AND THEREFORE, ANALYTICAL SUMMARY DATA IS NOT SHOWN.
6. RESULTS IN EXCEEDANCE OF NYSDEC TOGS AWQS ARE SHADED AND BOLDED.
7. VOC = VOLATILE ORGANIC COMPOUND
8. SVOC = SEMIVOLATILE ORGANIC COMPOUND
9. µg/L = MICROGRAM PER LITER
10. J = THE ANALYTE WAS DETECTED ABOVE THE METHOD DETECTION LIMIT (MDL), BUT BELOW THE REPORTING LIMIT (RL); THEREFORE, THE RESULT IS AN ESTIMATED CONCENTRATION.

Sample ID	MW-2
Sample Date	4/30/2016
Total Metals (µg/L)	
Arsenic	911
Iron	1,910
Magnesium	91,500
Manganese	7,990
Sodium	440,000
Thallium	13
Dissolved Metals (µg/L)	
Arsenic	468
Magnesium	82,900
Manganese	6,790
Sodium	391,000
Thallium	15

Sample ID	MW-3
Sample Date	4/30/2016
SVOCs (µg/L)	
Benzo(a)anthracene	0.274
Benzo(a)pyrene	0.168
Benzo(b)fluoranthene	0.168
Benzo(k)fluoranthene	0.158
Chrysene	0.211
Indeno(1,2,3-cd)pyrene	0.126
Total Metals (µg/L)	
Arsenic	164
Iron	8,010
Lead	495
Manganese	4,090
Sodium	438,000
Thallium	6
Dissolved Metals (µg/L)	
Arsenic	111
Manganese	1,830
Selenium	12
Sodium	391,000

Sample ID	MW-1
Sample Date	4/30/2016
Total Metals (µg/L)	
Arsenic	420
Copper	229
Iron	4,660
Lead	177
Magnesium	77,500
Manganese	6,460
Selenium	16
Sodium	450,000
Thallium	11
Dissolved Metals (µg/L)	
Arsenic	230
Magnesium	78,100
Manganese	6,130
Selenium	17
Sodium	454,000
Thallium	11

Sample ID	SB-1(GW)
Sample Date	5/14/2014
VOCs (µg/L)	
Benzene	1.4
Methyl tert butyl ether	11

Sample ID	TW05_060118	TWDUP01_060118
Sample Date	6/1/2018	6/1/2018
Total Metals (µg/L)		
Arsenic	177.3	183
Iron	4,860	4,890
Magnesium	69,600	71,400
Manganese	10,960	10,770
Sodium	618,000	600,000
Dissolved Metals (µg/L)		
Arsenic	221	193.8
Iron	5,070	4,370
Magnesium	70,800	71,300
Manganese	11,740	10,870
Sodium	602,000	591,000

Sample ID	TW03_060118
Sample Date	6/1/2018
VOCs (µg/L)	
1,2,4,5-Tetramethylbenzene	55
1,2,4-Trimethylbenzene	49
Benzene	46
Ethylbenzene	13
Isopropylbenzene	34
Naphthalene	32
n-Butylbenzene	11
n-Propylbenzene	79
sec-Butylbenzene	8.5
SVOCs (µg/L)	
Benzo(a)anthracene	0.05 J
Chrysene	0.05 J
Total Metals (µg/L)	
Iron	22,600
Manganese	2,882
Dissolved Metals (µg/L)	
Iron	14,800 J
Manganese	2,263

NYSDEC TOGS SGVs	
VOCs (µg/L)	
1,2,4,5-Tetramethylbenzene	5
1,2,4-Trimethylbenzene	5
Benzene	1
Ethylbenzene	5
Isopropylbenzene	5
Methyl tert butyl ether	10
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
sec-Butylbenzene	5
SVOCs (µg/L)	
Benzo(a)anthracene	0.002
Benzo(a)pyrene	0.002
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Total Metals (µg/L)	
Arsenic	25
Copper	200
Lead	25
Iron	300
Magnesium	35,000
Manganese	300
Selenium	10
Sodium	20,000
Thallium	0.5

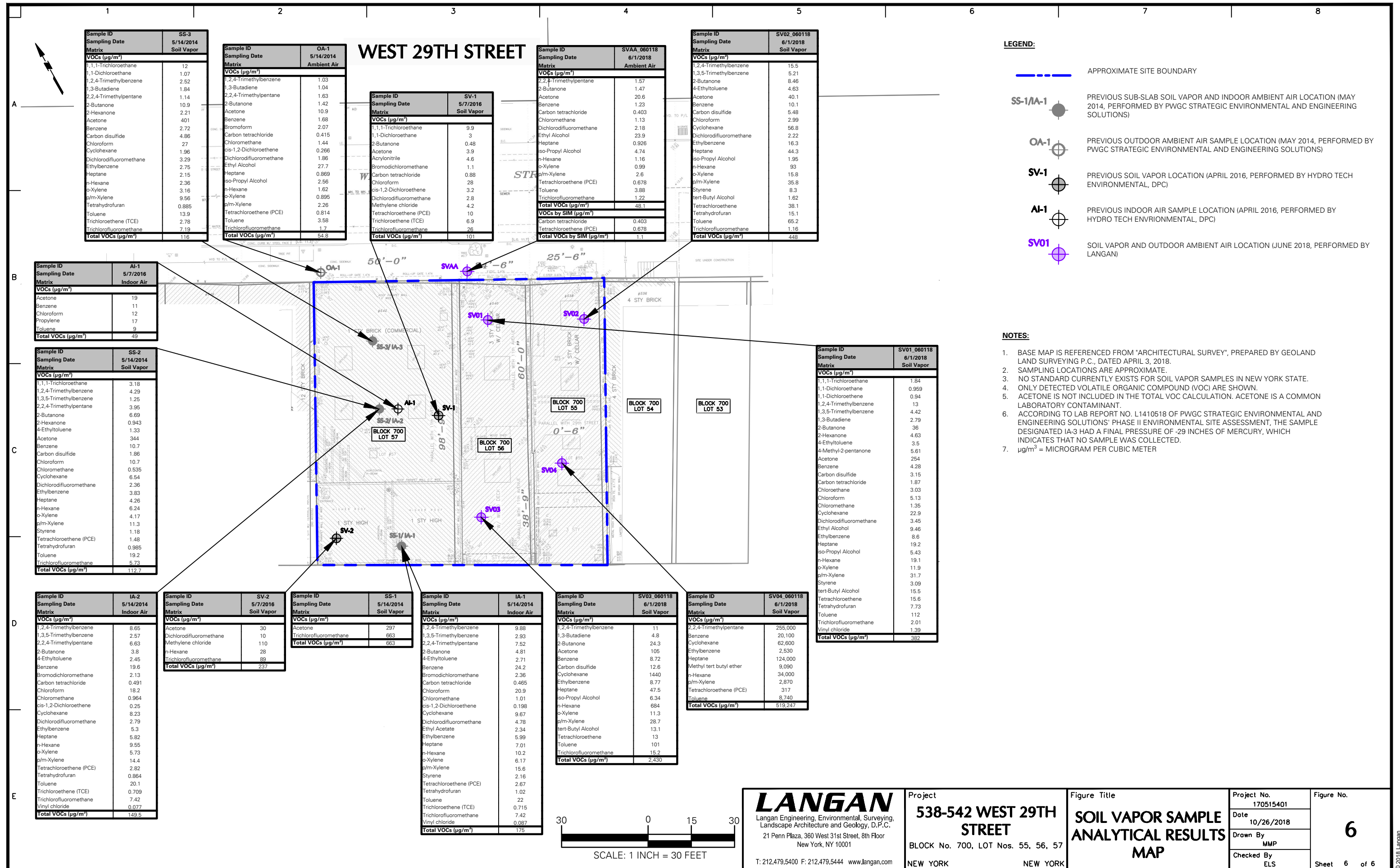


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Project
538-542 WEST 29TH STREET
 BLOCK No. 700, LOT Nos. 55, 56, 57
 NEW YORK NEW YORK

Figure Title
GROUNDWATER SAMPLE ANALYTICAL RESULTS MAP

Project No. 170515401
 Date 10/26/2018
 Drawn By MMP
 Checked By ELS
 Figure No. 5
 Sheet 5 of 6



Sample ID	SS-3
Sampling Date	5/14/2014
Matrix	Soil Vapor
VOCs (µg/m³)	
1,1,1-Trichloroethane	12
1,1-Dichloroethane	1.07
1,2,4-Trimethylbenzene	2.52
1,3-Butadiene	1.84
2,2,4-Trimethylpentane	1.14
2-Butanone	10.9
2-Hexanone	2.21
Acetone	401
Benzene	2.72
Carbon disulfide	4.86
Chloroform	27
Cyclohexane	1.96
Dichlorodifluoromethane	3.29
Ethylbenzene	2.75
Heptane	2.15
n-Hexane	2.36
o-Xylene	3.16
p/m-Xylene	9.56
Tetrahydrofuran	0.885
Toluene	13.9
Trichloroethene (TCE)	2.78
Trichlorofluoromethane	7.19
Total VOCs (µg/m³)	116

Sample ID	OA-1
Sampling Date	5/14/2014
Matrix	Ambient Air
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	1.03
1,3-Butadiene	1.04
2,2,4-Trimethylpentane	1.63
2-Butanone	1.42
Acetone	10.9
Benzene	1.68
Bromoform	2.07
Carbon tetrachloride	0.415
Chloroform	1.44
cis-1,2-Dichloroethane	0.266
Dichlorodifluoromethane	1.86
Ethyl Alcohol	27.7
Heptane	0.869
iso-Propyl Alcohol	2.56
n-Hexane	1.62
o-Xylene	0.895
p/m-Xylene	2.26
Tetrachloroethene (PCE)	0.814
Toluene	3.58
Trichlorofluoromethane	1.7
Total VOCs (µg/m³)	54.8

Sample ID	SV-1
Sampling Date	5/7/2016
Matrix	Soil Vapor
VOCs (µg/m³)	
1,1,1-Trichloroethane	9.9
1,1-Dichloroethane	3
2-Butanone	0.48
Acetone	3.9
Acrylonitrile	4.6
Bromodichloromethane	1.1
Carbon tetrachloride	0.88
Chloroform	28
cis-1,2-Dichloroethane	3.2
Dichlorodifluoromethane	2.8
Methylene chloride	4.2
Tetrachloroethene (PCE)	10
Trichloroethene (TCE)	6.9
Trichlorofluoromethane	26
Total VOCs (µg/m³)	101

Sample ID	SVAA_060118
Sampling Date	6/1/2018
Matrix	Ambient Air
VOCs (µg/m³)	
2,2,4-Trimethylpentane	1.57
2-Butanone	1.47
Acetone	20.6
Benzene	1.23
Carbon tetrachloride	0.403
Chloromethane	1.13
Dichlorodifluoromethane	2.18
Ethyl Alcohol	23.9
Heptane	0.926
iso-Propyl Alcohol	4.74
n-Hexane	1.16
o-Xylene	0.99
p/m-Xylene	2.6
Tetrachloroethene (PCE)	0.678
Toluene	3.88
Trichlorofluoromethane	1.22
Total VOCs (µg/m³)	48.1
VOCs by SIM (µg/m³)	
Carbon tetrachloride	0.403
Tetrachloroethene (PCE)	0.678
Total VOCs by SIM (µg/m³)	1.1

Sample ID	SV02_060118
Sampling Date	6/1/2018
Matrix	Soil Vapor
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	15.5
1,3,5-Trimethylbenzene	5.21
2-Butanone	8.46
4-Ethyltoluene	4.63
Acetone	40.1
Benzene	10.1
Carbon disulfide	5.48
Chloroform	2.99
Cyclohexane	56.8
Dichlorodifluoromethane	2.22
Ethylbenzene	16.3
Heptane	44.3
iso-Propyl Alcohol	1.95
n-Hexane	93
o-Xylene	15.8
p/m-Xylene	35.8
Styrene	8.3
tert-Butyl Alcohol	1.62
Tetrachloroethene	38.1
Tetrahydrofuran	15.1
Toluene	65.2
Trichlorofluoromethane	1.16
Total VOCs (µg/m³)	448

Sample ID	AI-1
Sampling Date	5/7/2016
Matrix	Indoor Air
VOCs (µg/m³)	
Acetone	19
Benzene	11
Chloroform	12
Propylene	17
Toluene	9
Total VOCs (µg/m³)	49

Sample ID	SS-2
Sampling Date	5/14/2014
Matrix	Soil Vapor
VOCs (µg/m³)	
1,1,1-Trichloroethane	3.18
1,2,4-Trimethylbenzene	4.29
1,3,5-Trimethylbenzene	1.25
2,2,4-Trimethylpentane	3.95
2-Butanone	6.69
2-Hexanone	0.943
4-Ethyltoluene	1.33
Acetone	344
Carbon disulfide	10.7
Chloroform	10.7
Chloromethane	0.535
Cyclohexane	6.54
Dichlorodifluoromethane	2.36
Ethylbenzene	3.63
Heptane	4.26
n-Hexane	6.24
o-Xylene	4.17
p/m-Xylene	11.3
Styrene	1.18
Tetrachloroethene (PCE)	1.48
Tetrahydrofuran	0.985
Toluene	19.2
Trichlorofluoromethane	5.73
Total VOCs (µg/m³)	112.7

Sample ID	IA-2
Sampling Date	5/14/2014
Matrix	Indoor Air
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	8.65
1,3,5-Trimethylbenzene	2.57
2,2,4-Trimethylpentane	6.63
2-Butanone	3.8
4-Ethyltoluene	2.45
Benzene	19.6
Bromodichloromethane	2.13
Carbon tetrachloride	0.491
Chloroform	18.2
Chloromethane	0.964
cis-1,2-Dichloroethane	0.25
Cyclohexane	8.23
Dichlorodifluoromethane	2.79
Ethylbenzene	5.3
Heptane	5.82
n-Hexane	9.55
o-Xylene	5.73
p/m-Xylene	14.4
Tetrachloroethene (PCE)	2.82
Tetrahydrofuran	0.864
Toluene	20.1
Trichloroethene (TCE)	0.709
Trichlorofluoromethane	7.42
Vinyl chloride	0.077
Total VOCs (µg/m³)	149.5

Sample ID	SV-2
Sampling Date	5/7/2016
Matrix	Soil Vapor
VOCs (µg/m³)	
Acetone	30
Dichlorodifluoromethane	10
Methylene chloride	110
n-Hexane	28
Trichlorofluoromethane	89
Total VOCs (µg/m³)	237

Sample ID	SS-1
Sampling Date	5/14/2014
Matrix	Soil Vapor
VOCs (µg/m³)	
Acetone	297
Trichlorofluoromethane	663
Total VOCs (µg/m³)	663

Sample ID	IA-1
Sampling Date	5/14/2014
Matrix	Indoor Air
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	9.88
1,3,5-Trimethylbenzene	2.93
2,2,4-Trimethylpentane	7.52
2-Butanone	4.81
4-Ethyltoluene	2.71
Benzene	24.2
Bromodichloromethane	2.36
Carbon tetrachloride	0.465
Chloroform	20.9
Chloromethane	1.01
cis-1,2-Dichloroethane	0.198
Cyclohexane	9.67
Dichlorodifluoromethane	4.78
Ethyl Acetate	2.34
Ethylbenzene	5.99
Heptane	7.01
n-Hexane	10.2
o-Xylene	6.17
p/m-Xylene	15.6
Styrene	2.16
Tetrachloroethene (PCE)	2.67
Tetrahydrofuran	1.02
Toluene	22
Trichloroethene (TCE)	0.715
Trichlorofluoromethane	7.42
Vinyl chloride	0.087
Total VOCs (µg/m³)	175

Sample ID	SV03_060118
Sampling Date	6/1/2018
Matrix	Soil Vapor
VOCs (µg/m³)	
1,2,4-Trimethylbenzene	11
1,3-Butadiene	4.8
2-Butanone	24.3
Acetone	105
Benzene	8.72
Carbon disulfide	12.6
Cyclohexane	1440
Ethylbenzene	8.77
Heptane	47.5
iso-Propyl Alcohol	6.34
n-Hexane	684
o-Xylene	11.3
p/m-Xylene	28.7
tert-Butyl Alcohol	13.1
Tetrachloroethene	13
Toluene	101
Trichlorofluoromethane	15.2
Total VOCs (µg/m³)	2,430

Sample ID	SV04_060118
Sampling Date	6/1/2018
Matrix	Soil Vapor
VOCs (µg/m³)	
2,2,4-Trimethylpentane	255,000
Benzene	20,100
Cyclohexane	62,600
Ethylbenzene	2,530
Heptane	124,000
Methyl tert butyl ether	9,090
n-Hexane	34,000
p/m-Xylene	2,870
Tetrachloroethene (PCE)	317
Toluene	8,740
Total VOCs (µg/m³)	519,247

Sample ID	SV01_060118
Sampling Date	6/1/2018
Matrix	Soil Vapor
VOCs (µg/m³)	
1,1,1-Trichloroethane	1.84
1,1-Dichloroethane	0.959
1,1-Dichloroethene	0.94
1,2,4-Trimethylbenzene	13
1,3,5-Trimethylbenzene	4.42
1,3-Butadiene	2.79
2-Butanone	36
2-Hexanone	4.63
4-Ethyltoluene	3.5
4-Methyl-2-pentanone	5.61
Acetone	254
Benzene	4.28
Carbon disulfide	3.15
Carbon tetrachloride	1.87
Chloroethane	3.03
Chloroform	5.13
Chloromethane	1.35
Cyclohexane	22.9
Dichlorodifluoromethane	3.45
Ethyl Alcohol	9.46
Ethylbenzene	8.6
Heptane	19.2
iso-Propyl Alcohol	5.43
n-Hexane	19.1
o-Xylene	11.9
p/m-Xylene	31.7
Styrene	3.09
tert-Butyl Alcohol	15.5
Tetrachloroethene	15.6
Tetrahydrofuran	7.73
Toluene	11.2
Trichlorofluoromethane	2.01
Vinyl chloride	1.39
Total VOCs (µg/m³)	382

- LEGEND:**
- APPROXIMATE SITE BOUNDARY
 - PREVIOUS SUB-SLAB SOIL VAPOR AND INDOOR AMBIENT AIR LOCATION (MAY 2014, PERFORMED BY PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS)
 - PREVIOUS OUTDOOR AMBIENT AIR SAMPLE LOCATION (MAY 2014, PERFORMED BY PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS)
 - PREVIOUS SOIL VAPOR LOCATION (APRIL 2016, PERFORMED BY HYDRO TECH ENVIRONMENTAL, DPC)
 - PREVIOUS INDOOR AIR SAMPLE LOCATION (APRIL 2016, PERFORMED BY HYDRO TECH ENVIRONMENTAL, DPC)
 - SOIL VAPOR AND OUTDOOR AMBIENT AIR LOCATION (JUNE 2018, PERFORMED BY LANGAN)

- NOTES:**
1. BASE MAP IS REFERENCED FROM "ARCHITECTURAL SURVEY", PREPARED BY GEOLAND LAND SURVEYING P.C., DATED APRIL 3, 2018.
 2. SAMPLING LOCATIONS ARE APPROXIMATE.
 3. NO STANDARD CURRENTLY EXISTS FOR SOIL VAPOR SAMPLES IN NEW YORK STATE.
 4. ONLY DETECTED VOLATILE ORGANIC COMPOUND (VOC) ARE SHOWN.
 5. ACETONE IS NOT INCLUDED IN THE TOTAL VOC CALCULATION. ACETONE IS A COMMON LABORATORY CONTAMINANT.
 6. ACCORDING TO LAB REPORT NO. L1410518 OF PWGC STRATEGIC ENVIRONMENTAL AND ENGINEERING SOLUTIONS' PHASE II ENVIRONMENTAL SITE ASSESSMENT, THE SAMPLE DESIGNATED IA-3 HAD A FINAL PRESSURE OF -29 INCHES OF MERCURY, WHICH INDICATES THAT NO SAMPLE WAS COLLECTED.
 7. µg/m³ = MICROGRAM PER CUBIC METER

<p>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	<p>Project 538-542 WEST 29TH STREET BLOCK No. 700, LOT Nos. 55, 56, 57 NEW YORK NEW YORK</p>	<p>Figure Title SOIL VAPOR SAMPLE ANALYTICAL RESULTS MAP</p>	<p>Project No. 170515401</p>	<p>Figure No. 6</p>
	<p>Date 10/26/2018</p>	<p>Project No. 170515401</p>	<p>Project No. 170515401</p>	<p>Figure No. 6</p>
	<p>Drawn By MMP</p>	<p>Date 10/26/2018</p>	<p>Project No. 170515401</p>	<p>Figure No. 6</p>
	<p>Checked By ELS</p>	<p>Date 10/26/2018</p>	<p>Project No. 170515401</p>	<p>Figure No. 6</p>

TABLES

Table 1
Sample Collection Summary
Phase II Environmental Site Investigation

538-542 West 29th Street
New York, New York
Langan Project No.: 170515401

Boring Location	Sample Name	Sample Depth (feet bgs)	Date	Investigation	Target Sample Interval	Analysis				
Soil										
SB-1	SB-1 (6-8)	6-8	5/14/2014	2014 Phase II ESA	Top of groundwater table	TCL VOCs				
SB-2	SB-2 (1.5-3.5)	1.5-3.5			Top of groundwater table					
SB-4	SB-4 (6-8)	6-8			Top of groundwater table					
SB-5	SB-5 (6-8)	6-8			Top of groundwater table					
SP-1	SP-1 (0-2)	0-2	4/30/2016	2016 RI	Shallow fill 0-2'	TCL VOCs, SVOCs, Pesticides, PCBs, TAL Metals				
	SP-1 (4-6)	4-6			Deep fill 4-6'					
SP-2	SP-2 (0-2)	0-2			Shallow fill 0-2'					
	SP-2 (4-6)	4-6			Deep fill 4-6'					
SP-3	SP-3 (0-2)	0-2	4/23/2016	2016 RI	Shallow fill 0-2'		TCL VOCs, SVOCs, Pesticides, PCBs, TAL Metals			
	SP-3 (10-12)	10-12			Groundwater interface					
SP-4	SP-4 (0-2)	0-2			Shallow fill 0-2'					
	SP-4 (10-12)	10-12			Groundwater interface					
SP-5	SP-5 (0-2)	0-2	4/23/2016	2016 RI	Shallow fill 0-2'	TCL VOCs, SVOCs, Pesticides, PCBs, TAL Metals				
	SP-5 (10-12)	10-12			Groundwater interface					
SB01	SB01_0-2	0-2			5/31/2018			2018 Phase II ESI	Shallow fill 0-2'	Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides, Herbicides, and Part 375/ TAL Metals (including Hexavalent chromium, Trivalent chromium and Total cyanide)
	SB01_3-4	3-4							Fill material	
	SB01_8-9	8-9	Native material							
SB02	SB02_0-2	0-2	Shallow fill 0-2'							
	SB02_4-6	4.5-6	Native material							
	SB02_6-8	6-8	Native material							
SB03/TW03	SB03_0-1	0-1	5/31/2018	2018 Phase II ESI	Shallow fill 0-2'	Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides, Herbicides, and Part 375/ TAL Metals (including Hexavalent chromium, Trivalent chromium and Total cyanide)				
	SB03_3-4	3-4			Most contaminated					
	SB03_7-8	7-8			Native material					
SB04	SB04_1-3	1-3			6/1/2018		2018 Phase II ESI	Shallow fill 0-2'	Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides, Herbicides, and Part 375/ TAL Metals (including Hexavalent chromium, Trivalent chromium and Total cyanide)	
	SB04_6-8	6-8						Native material		
	SB04_10-12	10-12						Native material		
SB05	SB05_0-2	0-2	Shallow fill 0-2'							
	SB05_7-8	7-8	Bottom of fill material							
	SB05_11-12	11-12	Native material							
SB06/TW06	SB06_0-2	0-2	6/1/2018	2018 Phase II ESI	Shallow fill 0-2'		Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides, Herbicides, and Part 375/ TAL Metals (including Hexavalent chromium, Trivalent chromium and Total cyanide)			
	SB06_6-8	6-8			Fill material					
	SB06_12-14	12-14			Native material					
	SB06_14-16	14-16			Most contaminated					
Groundwater										
SB01	SB-1	5-9			5/14/2014	2014 Phase II ESA		Top of water table		TCL VOCs
SB04	SB-4									
SB05	SB-5									
MW-1	MW-1	6-21	5/7/2016	2016 RI	5 feet above the groundwater level to 10 feet below the groundwater level	VOCs, SVOCs, Pesticides, PCBs, TAL Metals, Hexavalent chromium and Trivalent chromium				
MW-2	MW-2									
MW-3	MW-3									
TW03	TW03_060118	0-10	6/1/2018	2018 Phase II ESI	Well screens straddles water table	Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides and Part 375/ TAL Total and Dissolved Metals				
TW05	TW05_060118	6-16								
Soil Vapor										
SS-1	SS-1	0.2 (below slab)	5/14/2014	2014 Phase II ESA	Sub-slab	TO-15 VOCs				
SS-2	SS-2									
SS-3	SS-3									
IA-1	IA-1	NA	5/14/2014	2014 Phase II ESA	Indoor Ambient Air		TO-15 VOCs			
IA-2	IA-2									
IA-3	IA-3									
OA-1	OA-1									
SV-1	SV-1	6	5/7/2016	2016 RI	2 feet above groundwater table			TO-15 VOCs		
SV-2	SV-2	6			Indoor Ambient Air					
AI-1	AI-1	NA	6/1/2018	2018 Phase II ESI	2 feet above groundwater table				TO-15 VOCs	
SV01	SV01_060118	7			Sub-slab					
SV02	SV02_060118	0.6			2 feet above groundwater table					
SV03	SV03_060118	7			Sub-slab					
SV04	SV04_060118	0.6	6/1/2018	2018 Phase II ESI	2 feet above groundwater table	TO-15 VOCs				
NA	AA01_060118	NA			Sub-slab					
NA	AA01_060118	NA	6/1/2018	2018 Phase II ESI	Outdoor Ambient Air		TO-15 VOCs			
NA	AA01_060118	NA			Outdoor Ambient Air					

Notes and Qualifiers:

- | | |
|---|---|
| 1. TCL = Target Compound List | 8. TO-15 = Compendium Method TO-15 used to determine toxic organic compounds in soil vapor and ambient air samples |
| 2. TAL = Target Analyte List | 9. SODUP01_053118 is a duplicate of the parent sample SB01_0-2 |
| 3. VOC = Volatile Organic Compound | 10. SODUP02_060118 is a duplicate of the parent sample SB05_11-12 |
| 4. SVOC = Semivolatile Organic Compound | 11. GVDUP01_060118 is a duplicate of the parent sample TW05_060118 |
| 5. PCBs = Polychlorinated biphenyls | 12. Phase II Environmental Site Assessment (ESA) completed by PWGC Strategic Environmental and Engineering Solutions in May 2014. |
| 6. bgs = Below grade surface | 13. Remedial Investigation (RI) completed by Hydro Tech Environmental, DPC in April 2016. |
| 7. NA = Not Applicable | 14. Phase II Environmental Site Investigation (ESI) completed by Langan in May-June 2018. |

Table 1
Sample Collection Summary
Phase II Environmental Site Investigation

538-542 West 29th Street
New York, New York
Langan Project No.: 170515401

Boring Location	Sample Name	Sample Depth (feet bgs)	Date	Investigation	Target Sample Interval	Analysis
Quality Assurance/Quality Control						
Trip Blank	Trip Blank	NA	5/7/2016	2016 RI	Trip Blank	TCL VOCs
FB-1	FB-1				Field Blank	VOCs, SVOCs, Pesticides/PCBs, TAL Metals, Hexavalent chromium and Trivalent chromium
SB01	SBDUP01_053118	0-2	5/31/2018	2018 Phase II ESI	SB01_0-2 Duplicate	Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides, Herbicides, and Part 375/ TAL Metals (including Hexavalent chromium, Trivalent chromium and Total cyanide)
SB05	SBDUP02_060118	11-12	6/1/2018		SB05_11-12 Duplicate	Part 375/ TCL VOCs, SVOCs, PCBs, Pesticides and Part 375/ TAL Total and Dissolved Metals
SB05	TWDUP01_060118	6-16			TW05_060118 Duplicate	
NA	SBTB01_053118	NA	5/31/2018		Day 1: Cooler #1	TCL VOCs
NA	SBTB02_060118		6/1/2018		Day 2: Cooler #1	
NA	GWTB01_060118				Day 2: Cooler #2	

Notes and Qualifiers:

- | | |
|---|--|
| <ul style="list-style-type: none"> 1. TCL = Target Compound List 2. TAL = Target Analyte List 3. VOC = Volatile Organic Compound 4. SVOC = Semivolatile Organic Compound 5. PCBs = Polychlorinated biphenyls 6. bgs = Below grade surface 7. NA = Not Applicable | <ul style="list-style-type: none"> 8. TO-15 = Compendium Method TO-15 used to determine toxic organic compounds in soil vapor and ambient air samples 9. SODUP01_053118 is a duplicate of the parent sample SB01_0-2 10. SODUP02_060118 is a duplicate of the parent sample SB05_11-12 11. GVDUP01_060118 is a duplicate of the parent sample TW05_060118 12. Phase II Environmental Site Assessment (ESA) completed by PWGC Strategic Environmental and Engineering Solutions in May 2014. 13. Remedial Investigation (RI) completed by Hydro Tech Environmental, DPC in April 2016. 14. Phase II Environmental Site Investigation (ESI) completed by Langan in May-June 2018. |
|---|--|

Table 2B

Soil Sample Analytical Results - SVOC, Pest, PCB, Herb and Metals
Phase II Environmental Site Investigation

538-542 West 29th Street
New York, New York
Langan Project No.: 170515401

Table with columns: Investigation, Sample Location, Sample ID, Sampling Date, Lab Sample ID, Sample Depth (feet bgs), NYSDEC Part 375 Unrestricted Use SCOs, NYSDEC Part 375 Restricted Use Restricted-Residential SCOs, NYSDEC Part 375 Restricted Commercial Use SCOs, SB02, SB03, SB04, SB05, SB06. Rows include Semivolatile Organic Compounds (SVOC), Pesticides, Polychlorinated Biphenyls (PCB), Herbicides, and Total Metals.

- Notes and Qualifiers:
1. Grab soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Unrestricted Use, Restricted Use Restricted-Residential, and Restricted Use Commercial Soil Cleanup Objectives (SCOs).
2. Phase II Environmental Site Assessment (ESA) completed by PWGC Strategic Environmental and Engineering Solutions in May 2014.
3. Remedial Investigation (RI) completed by Hydro Tech Environmental, DPC in April 2016.
4. Phase II Environmental Site Investigation (ESI) completed by Langan in May-June 2018.
5. Only detected compounds are shown in the table.
6. Compounds detected above Unrestricted Use SCOs are bolded.
7. Compounds detected above Restricted Use Restricted-Residential SCOs are shaded and bolded.
8. Compounds detected above Restricted Use Commercial SCOs are shaded and bolded red.
9. Compounds with reporting limits (RLs) above the Unrestricted Use are italicized.
10. bgs = Below grade surface
11. mg/kg = Milligram per kilogram
12. ~ = Criterion does not exist.
13. Sample SBDUP01_053118 is a duplicate sample of SB01_0-2.
14. Sample SBDUP02_060118 is a duplicate sample of SB05_11-12.
15. EPA = Environmental Protection Agency
16. NT = Not Tested
17. ND = Not Detected
18. Pest / Herb = Pesticide / Herbicide
19. J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
20. U = The analyte was detected for; but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.
21. D = The concentration reported is a result of a diluted sample.
22. E = Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
23. P = The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.
24. I = The lower value for the two columns has been reported due to obvious interference.
25. UU = The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.

Table 5
Quality Assurance/Quality Control Sample Results Summary
Phase II Environmental Site Investigation

538-542 West 29th Street
New York, New York
Langan Project No.: 170515401

Investigation Sample ID Sampling Date Lab Sample ID Sample Type	RI 2016				Phase II ESI 2018					
	Trip Blank		FB-1		SBTB01_053118		SBTB02_060118		GWTB01_060118	
	5/7/2016		5/7/2016		5/31/2018		6/1/2018		6/1/2018	
	16E0327-04		16E0327-05		L1820045-11		L1820339-01		L1820339-16	
	Groundwater Trip Blank		Groundwater Field Blank		Soil Trip Blank		Soil Trip Blank		Groundwater Trip Blank	
Volatile Organic Compounds (µg/L)										
1,1,1,2-Tetrachloroethane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,1,1-Trichloroethane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,1,2,2-Tetrachloroethane	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.2	U	0.2	U	NT		NT		NT	
1,1,2-Trichloroethane	0.2	U	0.2	U	1.5	U	1.5	U	1.5	U
1,1-Dichloroethane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,1-Dichloroethene	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
1,1-Dichloropropene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichlorobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,2,3-Trichloropropane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,2,4,5-Tetramethylbenzene	0.2	U	0.2	U	2	U	2	U	2	U
1,2,4-Trichlorobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,2,4-Trimethylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,2-Dibromo-3-chloropropane	0.2	U	0.2	U	2.5	UJ	2.5	U	2.5	U
1,2-Dibromoethane	0.2	U	0.2	U	2	U	2	U	2	U
1,2-Dichlorobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,2-Dichloroethane	0.2	U	0.2	U	0.5	U	0.5	UJ	0.5	UJ
1,2-Dichloroethene, Total	NT		NT		2.5	U	2.5	U	2.5	U
1,2-Dichloropropane	0.2	U	0.2	U	1	U	1	U	1	U
1,3,5-Trimethylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,3-Dichlorobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,3-Dichloropropene, Total	NT		NT		0.5	U	0.5	U	0.5	U
1,4-Dichlorobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
1,4-Dioxane	NT		NT		250	UJ	250	UJ	250	UJ
2,2-Dichloropropane	0.2	U	0.2	U	2.5	U	2.5	UJ	2.5	UJ
2-Butanone	0.8	U	0.8	U	5	UJ	5	UJ	5	UJ
2-Chlorotoluene	0.2	U	0.2	U	NT		NT		NT	
2-Hexanone	0.2	U	0.2	U	5	UJ	5	U	5	U
4-Chlorotoluene	0.2	U	0.2	U	NT		NT		NT	
4-Methyl-2-pentanone	0.2	U	0.2	U	5	UJ	5	U	5	U
Acetone	1	U	1	U	5	U	5	UJ	5	UJ
Acrylonitrile	0.2	U	0.2	U	5	UJ	5	U	5	U
Benzene	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Bromochloromethane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Bromodichloromethane	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Bromoform	0.2	U	0.2	U	2	UJ	2	U	2	U
Bromomethane	0.2	U	0.2	U	2.5	UJ	2.5	U	2.5	U
Carbon disulfide	0.2	U	0.2	U	5	U	5	U	5	U
Carbon tetrachloride	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Chlorobenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Chloroethane	0.2	U	0.2	U	2.5	UJ	2.5	U	2.5	U
Chloroform	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Chloromethane	0.2	U	0.2	U	2.5	UJ	2.5	U	2.5	U
cis-1,2-Dichloroethene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
cis-1,3-Dichloropropene	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Dibromochloromethane	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Dibromomethane	0.2	U	0.2	U	5	U	5	U	5	U
Dichlorodifluoromethane	0.2	U	0.2	U	5	UJ	5	U	5	U
Ethyl ether	NT		NT		2.5	UJ	2.5	U	2.5	U
Ethylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Hexachlorobutadiene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Isopropylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Methyl tert butyl ether	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Methylene chloride	1	U	1	U	2.5	U	2.5	U	2.5	U
n-Butylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
n-Propylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Naphthalene	NT		NT		2.5	UJ	2.5	U	2.5	U
o-Chlorotoluene	NT		NT		2.5	U	2.5	U	2.5	U
o-Xylene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
p-Chlorotoluene	NT		NT		2.5	U	2.5	U	2.5	U
p-Diethylbenzene	0.2	U	0.2	U	2	U	2	U	2	U
p-Ethyltoluene	0.2	U	0.2	U	2	U	2	U	2	U
p-Isopropyltoluene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
p/m-Xylene	0.5	U	0.5	U	2.5	U	2.5	U	2.5	U
sec-Butylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Styrene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
tert-Butylbenzene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Tetrachloroethane	0.2	U	0.2	U	0.5	U	0.5	U	0.5	U
Toluene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
trans-1,2-Dichloroethene	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
trans-1,3-Dichloropropene	0.2	U	0.2	U	0.5	UJ	0.5	UJ	0.5	UJ
trans-1,4-Dichloro-2-butene	NT		NT		2.5	UJ	2.5	UJ	2.5	UJ
Trichloroethene	0.2	U	0.2	U	0.5	UJ	0.5	U	0.5	U
Trichlorofluoromethane	0.2	U	0.2	U	2.5	U	2.5	U	2.5	U
Vinyl acetate	NT		NT		5	U	5	U	5	U
Vinyl chloride	0.2	U	0.2	U	1	UJ	1	U	1	U
Xylenes, Total	NT		NT		2.5	U	2.5	U	2.5	U

Notes and Qualifiers:

1. Remedial Investigation (RI) completed by Hydro Tech Environmental, DPC in April 2016
2. Phase II Environmental Site Investigation (ESI) completed by Langan in May-June 2018
3. µg/L = Microgram per liter
4. mg/L = Milligram per liter
5. U = Analyte not detected at or above the level indicated
6. J = Analyte detected at or above the method detection limit but below the reporting limit; therefore data is estimated
7. NT = Not Tested
8. ND = Not Detected
9. VOC = Volatile Organic Compound

Table 5
Quality Assurance/Quality Control Sample Results Summary
Phase II Environmental Site Investigation

538-542 West 29th Street
New York, New York
Langan Project No.: 170515401

Investigation Sample ID Sampling Date Lab Sample ID Sample Type	RI 2016		Phase II ESI 2018		
	Trip Blank 5/7/2016 16E0327-04 Groundwater Trip Blank	FB-1 5/7/2016 16E0327-05 Groundwater Field Blank	SBTB01_053118 5/31/2018 L1820045-11 Soil Trip Blank	SBTB02_060118 6/1/2018 L1820339-01 Soil Trip Blank	GWTB01_060118 6/1/2018 L1820339-16 Groundwater Trip Blank
Semivolatile Organic Compounds (µg/L)					
1,2,4-Trichlorobenzene	NT	2.67	U	NT	NT
1,2-Dichlorobenzene	NT	2.69	U	NT	NT
1,3-Dichlorobenzene	NT	2.82	U	NT	NT
1,4-Dichlorobenzene	NT	2.39	U	NT	NT
2,4-Dinitrotoluene	NT	1.74	U	NT	NT
2,6-Dinitrotoluene	NT	1.74	U	NT	NT
2-Chloronaphthalene	NT	2.38	U	NT	NT
2-Methylnaphthalene	NT	2.98	U	NT	NT
2-Nitroaniline	NT	1.82	U	NT	NT
3,3'-Dichlorobenzidine	NT	1.37	U	NT	NT
3-Nitroaniline	NT	1.82	U	NT	NT
4-Bromophenyl phenyl ether	NT	1.44	U	NT	NT
4-Chloroaniline	NT	3.22	U	NT	NT
4-Chlorophenyl phenyl ether	NT	2.65	U	NT	NT
4-Nitroaniline	NT	2.9	U	NT	NT
Acenaphthene	NT	0.0541	U	NT	NT
Acenaphthylene	NT	0.0541	U	NT	NT
Aniline	NT	1.62	U	NT	NT
Anthracene	NT	0.0541	U	NT	NT
Benzo(a)anthracene	NT	0.0541	U	NT	NT
Benzo(a)pyrene	NT	0.0541	U	NT	NT
Benzo(b)fluoranthene	NT	0.0541	U	NT	NT
Benzo(g,h,i)perylene	NT	0.0541	U	NT	NT
Benzo(k)fluoranthene	NT	0.0541	U	NT	NT
Benzyl butyl phthalate	NT	0.921	U	NT	NT
Bis(2-chloroethoxy)methane	NT	1.91	U	NT	NT
Bis(2-chloroethyl)ether	NT	1.62	U	NT	NT
Bis(2-chloroisopropyl)ether	NT	3.23	U	NT	NT
Bis(2-ethylhexyl)phthalate	NT	0.541	U	NT	NT
Carbazole	NT	1.42	U	NT	NT
Chrysene	NT	0.0541	U	NT	NT
Dibenzo(a,h)anthracene	NT	0.0541	U	NT	NT
Dibenzofuran	NT	2.61	U	NT	NT
Diethyl phthalate	NT	2.77	U	NT	NT
Dimethyl phthalate	NT	2.06	U	NT	NT
Di-n-butyl phthalate	NT	2.22	U	NT	NT
Di-n-octyl phthalate	NT	1.21	U	NT	NT
Fluoranthene	NT	0.0541	U	NT	NT
Fluorene	NT	0.0541	U	NT	NT
Hexachlorobenzene	NT	0.0216	U	NT	NT
Hexachlorobutadiene	NT	0.541	U	NT	NT
Hexachlorocyclopentadiene	NT	2.74	U	NT	NT
Hexachloroethane	NT	0.541	U	NT	NT
Indeno(1,2,3-cd)pyrene	NT	0.0541	U	NT	NT
Isophorone	NT	2.9	U	NT	NT
Naphthalene	NT	0.0541	U	NT	NT
Nitrobenzene	NT	0.27	U	NT	NT
N-Nitrosodimethylamine	NT	0.541	U	NT	NT
N-nitroso-di-n-propylamine	NT	2.77	U	NT	NT
N-Nitrosodiphenylamine	NT	5.41	U	NT	NT
Phenanthrene	NT	0.0541	U	NT	NT
Pyrene	NT	0.0541	U	NT	NT
Pyridine	NT	4.23	U	NT	NT
Total SVOC's	NT	ND		NT	NT
Pesticides (µg/L)					
4,4'-DDD	NT	0.00444	U	NT	NT
4,4'-DDE	NT	0.00444	U	NT	NT
4,4'-DDT	NT	0.00444	U	NT	NT
Aldrin	NT	0.00444	U	NT	NT
alpha-BHC	NT	0.00444	U	NT	NT
alpha-Chlordane	NT	0.00444	U	NT	NT
beta-BHC	NT	0.00444	U	NT	NT
Chlordane, total	NT	0.0444	U	NT	NT
delta-BHC	NT	0.00444	U	NT	NT
Dieldrin	NT	0.00222	U	NT	NT
Endosulfan I	NT	0.00444	U	NT	NT
Endosulfan II	NT	0.00444	U	NT	NT
Endosulfan sulfate	NT	0.00444	U	NT	NT
Endrin	NT	0.00444	U	NT	NT
Endrin aldehyde	NT	0.0111	U	NT	NT
Endrin ketone	NT	0.0111	U	NT	NT
gamma-BHC (Lindane)	NT	0.00444	U	NT	NT
gamma-Chlordane	NT	0.0111	U	NT	NT
Heptachlor	NT	0.00444	U	NT	NT
Heptachlor epoxide	NT	0.00444	U	NT	NT
Methoxychlor	NT	0.00444	U	NT	NT
Toxaphene	NT	0.111	U	NT	NT

Notes and Qualifiers:

1. Remedial Investigation (RI) completed by Hydro Tech Environmental, DPC in April 2016
2. Phase II Environmental Site Investigation (ESI) completed by Langan in May-June 2018
3. µg/L = Microgram per liter
4. mg/L = Milligram per liter
5. U = Analyte not detected at or above the level indicated
6. J = Analyte detected at or above the method detection limit but below the reporting limit; therefore data is estimated
7. NT = Not Tested
8. ND = Not Detected
9. VOC = Volatile Organic Compound

Table 5
Quality Assurance/Quality Control Sample Results Summary
Phase II Environmental Site Investigation

538-542 West 29th Street
New York, New York
Langan Project No.: 170515401

Investigation Sample ID Sampling Date Lab Sample ID Sample Type	RI 2016			Phase II ESI 2018		
	Trip Blank 5/7/2016 16E0327-04 Groundwater Trip Blank	FB-1 5/7/2016 16E0327-05 Groundwater Field Blank		SBTB01_053118 5/31/2018 L1820045-11 Soil Trip Blank	SBTB02_060118 6/1/2018 L1820339-01 Soil Trip Blank	GWTB01_060118 6/1/2018 L1820339-16 Groundwater Trip Blank
Polychlorinated Biphenyls (PCBs) (µg/L)						
Aroclor 1016	NT	0.0556	U	NT	NT	NT
Aroclor 1221	NT	0.0556	U	NT	NT	NT
Aroclor 1232	NT	0.0556	U	NT	NT	NT
Aroclor 1242	NT	0.0556	U	NT	NT	NT
Aroclor 1248	NT	0.0556	U	NT	NT	NT
Aroclor 1254	NT	0.0556	U	NT	NT	NT
Aroclor 1260	NT	0.0556	U	NT	NT	NT
Total PCBs	NT	0.0556	U	NT	NT	NT
Metals (mg/L)						
Aluminum	NT	0.056	U	NT	NT	NT
Antimony	NT	0.006	U	NT	NT	NT
Arsenic	NT	0.004	U	NT	NT	NT
Barium	NT	0.011	U	NT	NT	NT
Beryllium	NT	0.001	U	NT	NT	NT
Cadmium	NT	0.003	U	NT	NT	NT
Calcium	NT	0.056	U	NT	NT	NT
Chromium	NT	0.006	U	NT	NT	NT
Cobalt	NT	0.006	U	NT	NT	NT
Copper	NT	0.003	U	NT	NT	NT
Iron	NT	0.078	U	NT	NT	NT
Lead	NT	0.003	U	NT	NT	NT
Magnesium	NT	0.056	U	NT	NT	NT
Manganese	NT	0.006	U	NT	NT	NT
Nickel	NT	0.006	U	NT	NT	NT
Potassium	NT	0.056	U	NT	NT	NT
Selenium	NT	0.011	U	NT	NT	NT
Silver	NT	0.006	U	NT	NT	NT
Sodium	NT	0.970	U	NT	NT	NT
Thallium	NT	0.006	U	NT	NT	NT
Vanadium	NT	0.011	U	NT	NT	NT
Zinc	NT	0.011	U	NT	NT	NT
Dissolved Metals (mg/L)						
Aluminum	NT	0.056	U	NT	NT	NT
Antimony	NT	0.006	U	NT	NT	NT
Arsenic	NT	0.004	U	NT	NT	NT
Barium	NT	0.011	U	NT	NT	NT
Beryllium	NT	0.001	U	NT	NT	NT
Cadmium	NT	0.003	U	NT	NT	NT
Calcium	NT	0.056	U	NT	NT	NT
Chromium	NT	0.006	U	NT	NT	NT
Cobalt	NT	0.006	U	NT	NT	NT
Copper	NT	0.003	U	NT	NT	NT
Iron	NT	0.092	U	NT	NT	NT
Lead	NT	0.003	U	NT	NT	NT
Magnesium	NT	0.056	U	NT	NT	NT
Manganese	NT	0.006	U	NT	NT	NT
Nickel	NT	0.006	U	NT	NT	NT
Potassium	NT	0.056	U	NT	NT	NT
Selenium	NT	0.011	U	NT	NT	NT
Silver	NT	0.006	U	NT	NT	NT
Sodium	NT	1.11	U	NT	NT	NT
Thallium	NT	0.006	U	NT	NT	NT
Vanadium	NT	0.011	U	NT	NT	NT
Zinc	NT	0.013	U	NT	NT	NT

Notes and Qualifiers:

1. Remedial Investigation (RI) completed by Hydro Tech Environmental, DPC in April 2016.
2. Phase II Environmental Site Investigation (ESI) completed by Langan in May-June 2018.
3. µg/L = Microgram per liter
4. mg/L = Milligram per liter
5. U = Analyte not detected at or above the level indicated
6. J = Analyte detected at or above the method detection limit but below the reporting limit; therefore data is estimated
7. NT = Not Tested
8. ND = Not Detected
9. VOC = Volatile Organic Compound

**APPENDIX A
PREVIOUS REPORTS
(SEPARATE ATTACHMENT)**

APPENDIX B
PHOTO DOCUMENTATION LOG



Photo 1, 5/31/2018: Soil recovery from soil boring SB2, facing down.



Photo 2, 5/31/2018: Soil recovery from soil boring SB1, facing down.



Photo 3, 5/31/2018: View of temporary well TW-3, facing southwest.

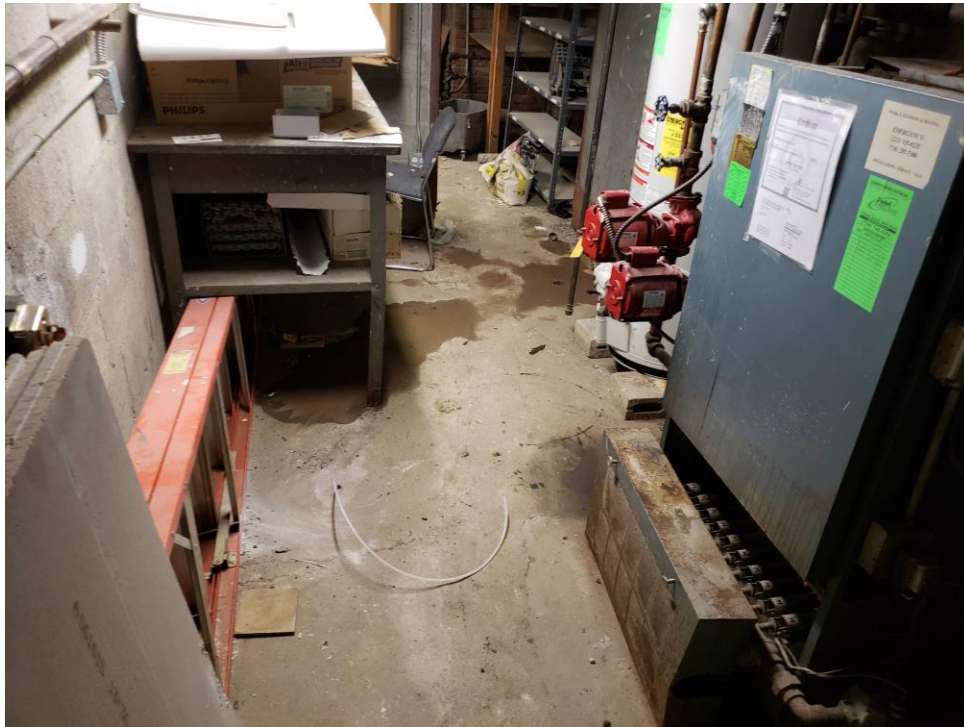


Photo 4, 5/31/2018: View of soil vapor point SV-2, facing north.



Photo 5, 5/31/2018: Closeup view of impacted soil from SB03, facing down.



Photo 6, 6/1/2018: AARCO advancing soil boring SB4 using a Geoprobe 6610DT, facing north.

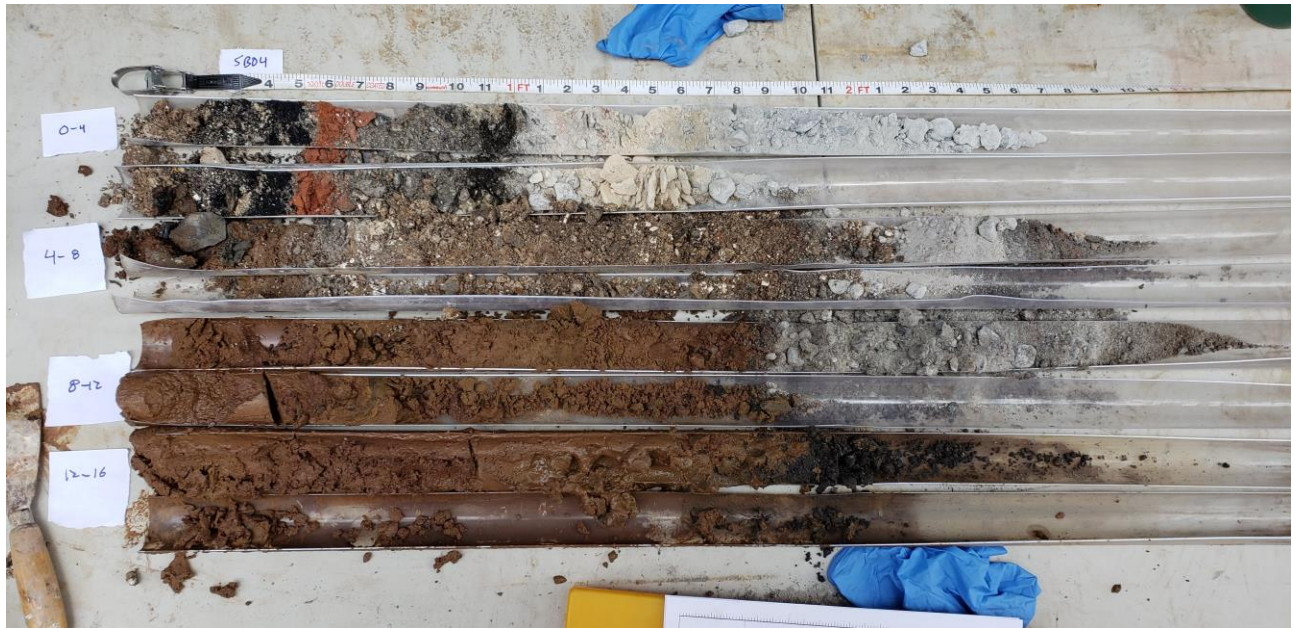


Photo 7, 6/1/2018: Soil recovery from soil boring SB4, facing down.



Photo 8, 6/1/2018: Soil recovery from boring SB5, facing down.



Photo 9, 6/1/2018: Soil recovery from boring SB6, facing down.

APPENDIX C
GEOPHYSICAL SURVEY

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Site

538-540 West 29th Street,
New York, New York 10001

NOVA PROJECT NUMBER

18-0785

DATED

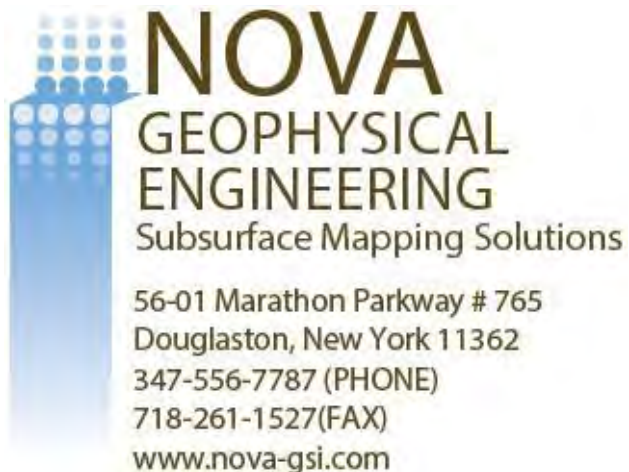
June 8, 2018

PREPARED FOR:

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727
www.langan.com

PREPARED BY:



NOVA GEOPHYSICAL SERVICES

SUBSURFACE MAPPING SOLUTIONS

56-01 Marathon Parkway #765, Douglaston, New York 11362
Ph. 347-556-7787 Fax. 718-261-1527
www.nova-gsi.com

June 8, 2018

Emily Snead
Senior Staff Scientist

LANGAN

21 Penn Plaza
360 West 31st Street, 8th Floor
New York, NY 10001-2727
Direct: 212.479.5432
Mobile: 508.918.8558

Re: Geophysical Engineering Survey (GES) Report
Commercial Site
538-540 West 29th Street,
New York, New York 10001

Dear Ms. Snead:

Nova Geophysical Services (NOVA) is pleased to provide the findings of the geophysical engineering survey (GES) at the above referenced project site: 538-540 West 29th Street, New York, New York 10001 (the "Site").

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a geophysical engineering survey (GES) consisting of a Ground Penetrating Radar (GPR) and Electromagnetic (EM) survey at the site. The purpose of this survey is to locate and identify utilities, underground storage tanks and other substructures on May 31st, 2018.

The equipment selected for this investigation was a Sensors and Software Noggin 250 MHz ground penetrating radar (GPR) with a shielded antenna and a Radio Detection RD7100 Electromagnetic utility locator.

A GPR system consists of a radar control unit, control cable, and transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulse into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Site

538-540 West 29th Street,
New York, New York 10001

subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

A typical electromagnetic (EM) utility locating system consists of a transmitter unit and a receiver unit. The receiver unit can be used independently of the transmitter unit in order to detect utility lines with an inherent EM signature (electric utility lines, water lines, etc.). If needed a current at a specific frequency can also be placed on a utility that is being located. This can be done via the transmitter unit by either direct connection or induction via an EM field varying at specific frequency. The receiver unit is then set to the selected frequency and the electromagnetic field created by the current running through the utility can be located allowing the utility to be marked.

GEOPHYSICAL METHODS

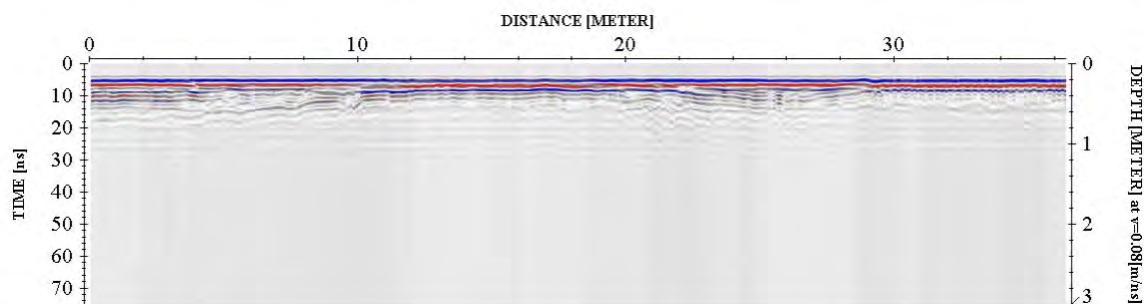
The project site was screened using GPR to search the specified area and inspected for reflections, which could be indicative of substructures and utilities within the subsurface. An EM utility locator was used to help determine the locations of utilities within the survey area.

EM data was collected and interpreted on site and suspected utilities marked as needed. GPR data profiles were collected for the areas of the Site specified by the client and processed as specified below.

DATA PROCESSING

In order to improve the quality of the results and to better identify anomalies NOVA processed the collected data. The processing work flow is briefly described in this section.

Step 1. Import Raw RAMAC data to standard processing format

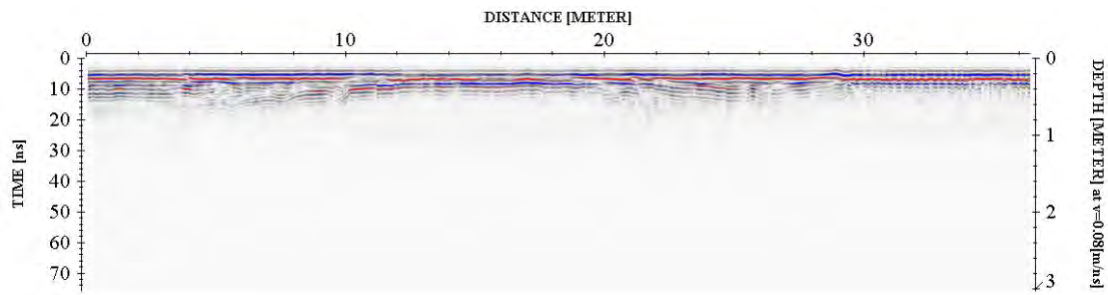


GEOPHYSICAL ENGINEERING SURVEY REPORT

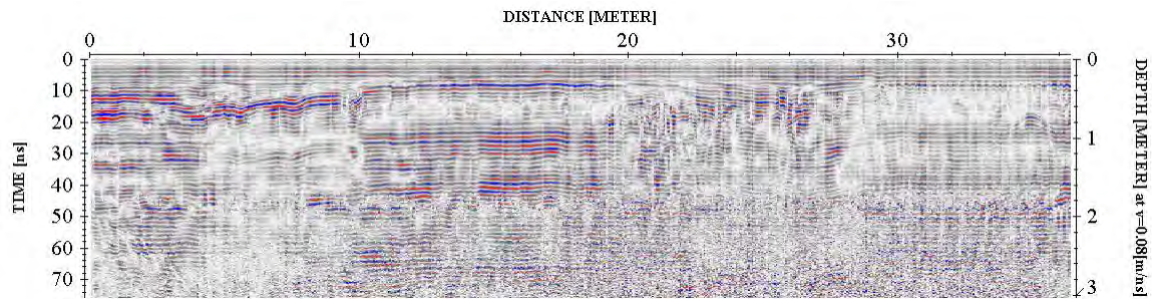
Commercial Site

538-540 West 29th Street,
New York, New York 10001

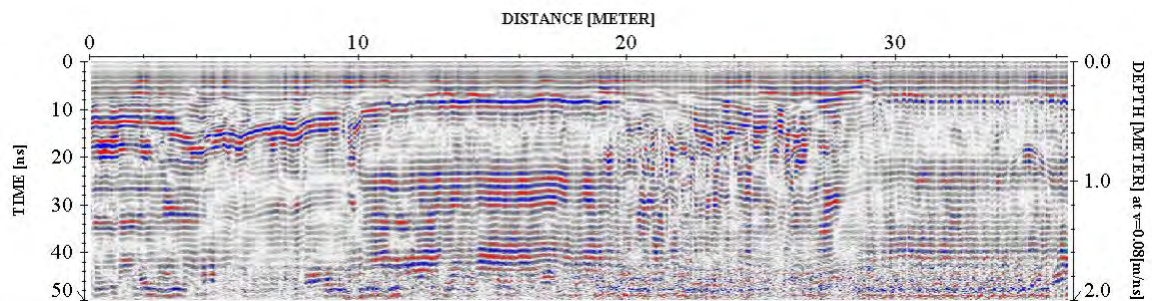
Step 2. Remove instrument noise (*dewow*)



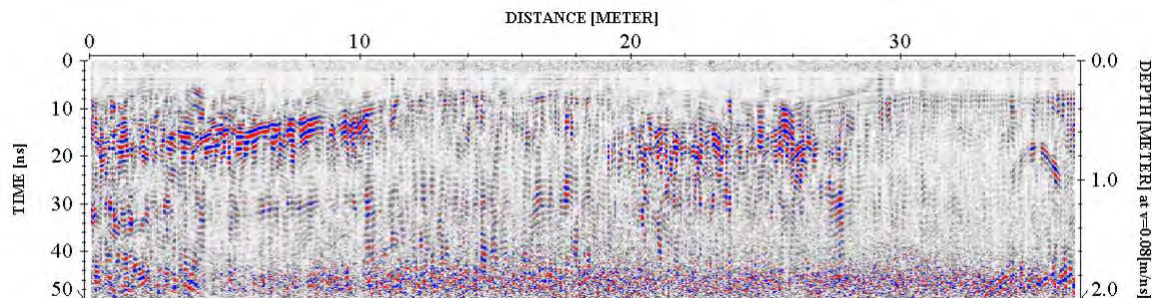
Step 3. Correct for attenuation losses (*energy decay function*)



Step 4. Remove static from bottom of profile (*time cut*)



Step 5. Mute horizontal ringing/noise (*subtracting average*)



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and represents the subsurface anomalies much more accurately.

PHYSICAL SETTINGS

NOVA observed the following physical conditions at the time of the survey.

Weather: Overcast

Temperature: 70° F

Surface: Concrete

Geophysical Noise Level: Geophysical noise at the site was high due to being in an urban environment. Substantial portions of 538 West 29th Street were also unable to be scanned with the GPR due to space constraints.

RESULTS

The results of the geophysical engineering survey (GES) identified the following at the project site:

- Sewer, water, telecommunications, gas and electric service lines were identified during the GES and are shown in the site survey plan.
- Multiple electrical conduits feeding outlets in the floor were identified in 540 West 29th Street. Their locations are shown in the site survey plan.
- A sump pump and drain were identified within the survey area and are shown in the survey plan.
- No large anomalies resembling an underground storage tanks (USTs) were identified within the site survey area.
- All detected subsurface anomalies were marked in the onsite mark out.
- NOVA cleared and marked all of the proposed boring locations at the project site..

GEOPHYSICAL ENGINEERING SURVEY REPORT

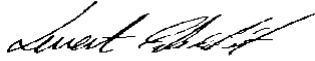
Commercial Site

538-540 West 29th Street,
New York, New York 10001

If you have any questions, please do not hesitate to contact the undersigned.

Sincerely,

NOVA Geophysical Services



Levent Eskicakit, P.G., E.P.

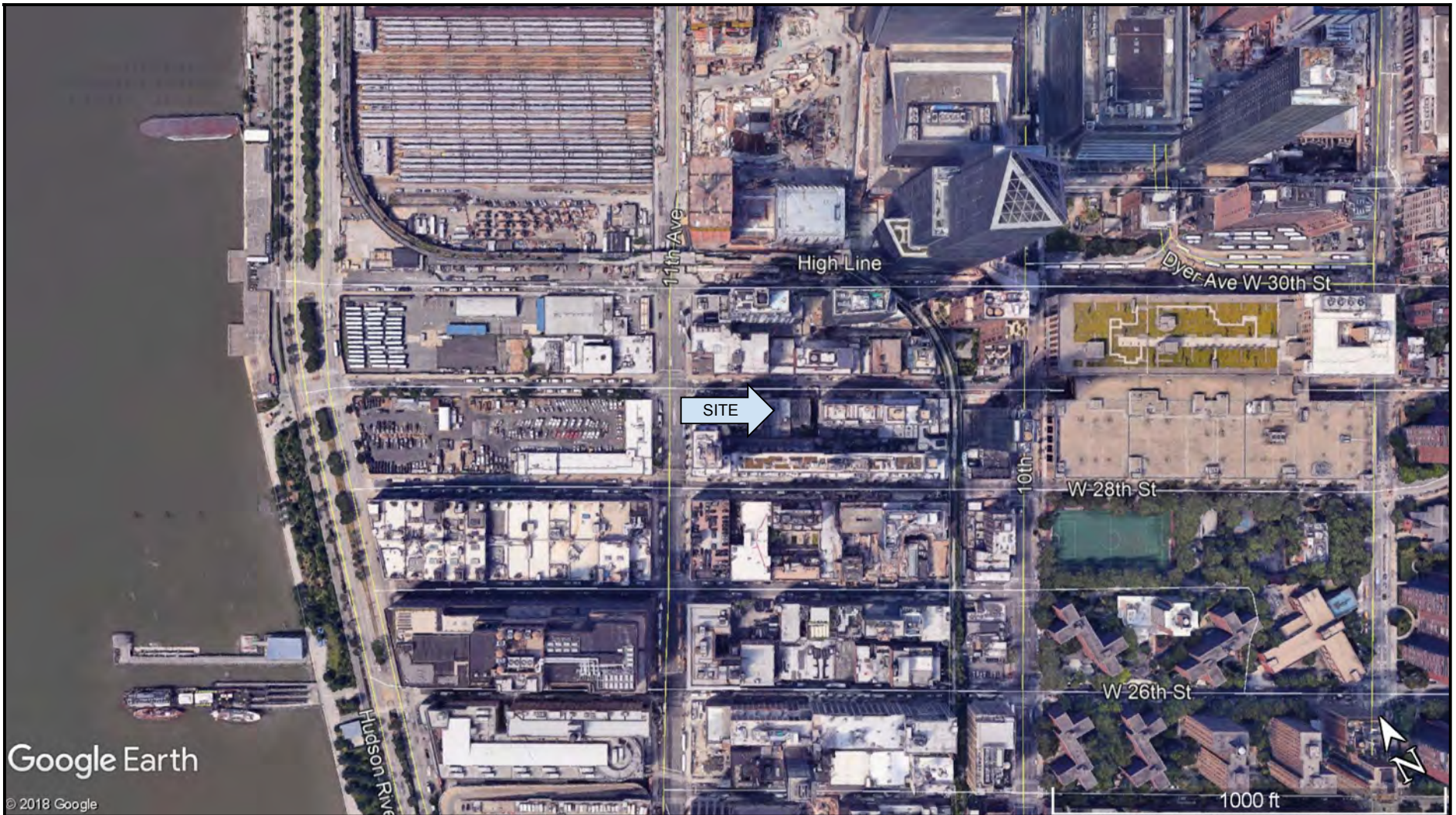
Project Engineer

Attachments:

Geophysical Images

Survey Plan

Location Map



Google Earth

© 2018 Google

SITE LOCATION MAP

LEGEND

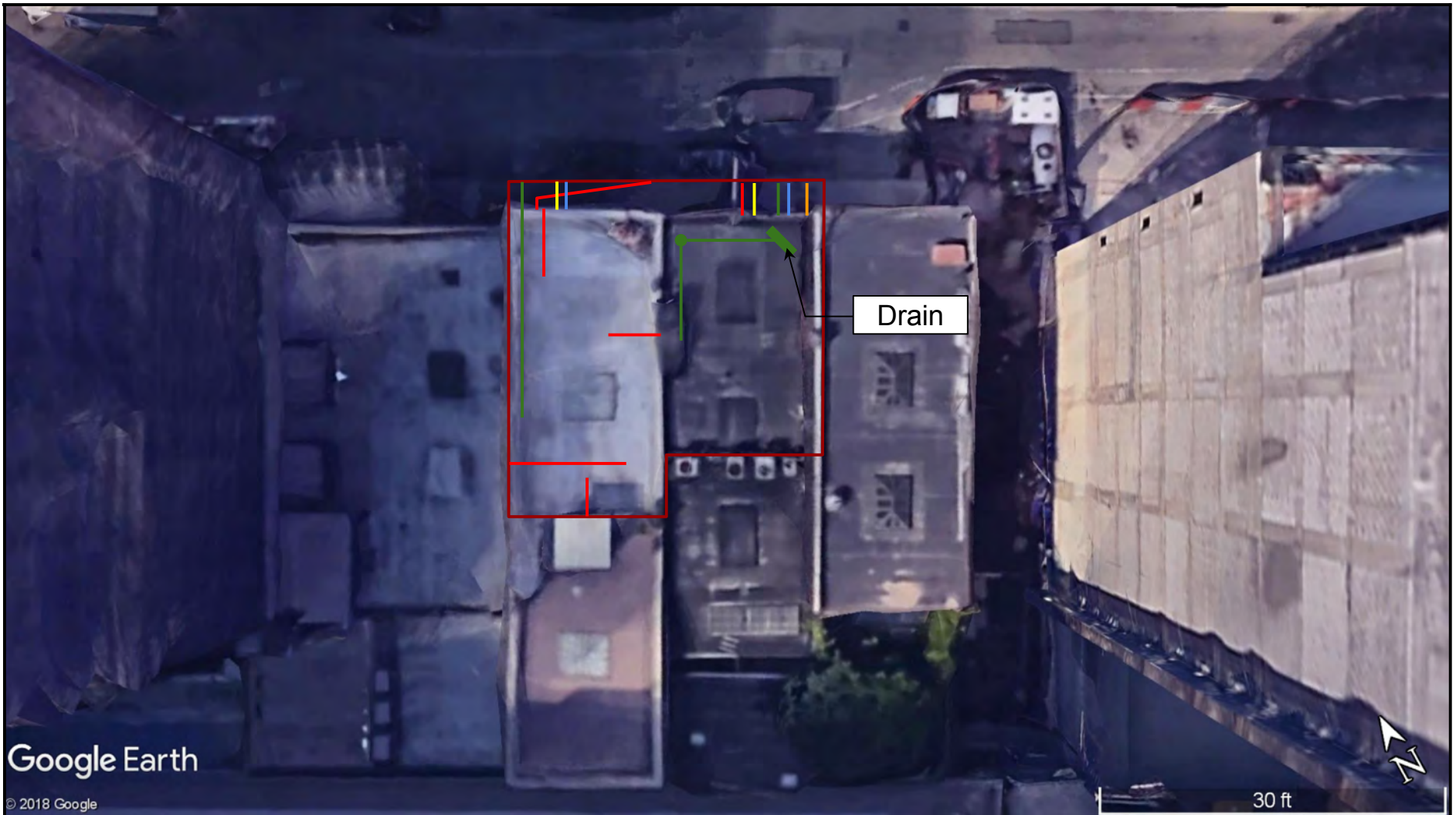
NOVA
GEOPHYSICAL
ENGINEERING
 Subsurface Mapping Solutions
 56-01 Marathon Parkway # 765
 Douglaston, New York 11362
 347-556-7787 (PHONE)
 718-261-1527(FAX)
 www.nova-gsi.com

SITE: **Commercial Site**
 538-540 West 28th Street,
 New York, New York 10001

CLIENT: Langan









DATE: May 31st, 2018

AUTH: Chris Steinley



Google Earth

© 2018 Google

	SURVEY PLAN	LEGEND
 <p>NOVA GEOPHYSICAL ENGINEERING Subsurface Mapping Solutions</p> <p>56-01 Marathon Parkway # 765 Douglaston, New York 11362 347-556-7787 (PHONE) 718-261-1527(FAX) www.nova-gsi.com</p>	<p>SITE: Commercial Site 538-540 West 28th Street, New York, New York 10001</p> <p>CLIENT: Langan</p> <p>DATE: May 31st, 2018</p> <p>AUTH: Chris Steinley</p>	<p> Survey Area</p> <p> Sewer</p> <p> Telecom</p> <p> Electric</p> <p> Water</p> <p> Gas</p> <p> Sump Pump</p>

GEOPHYSICAL IMAGES

Commercial Site

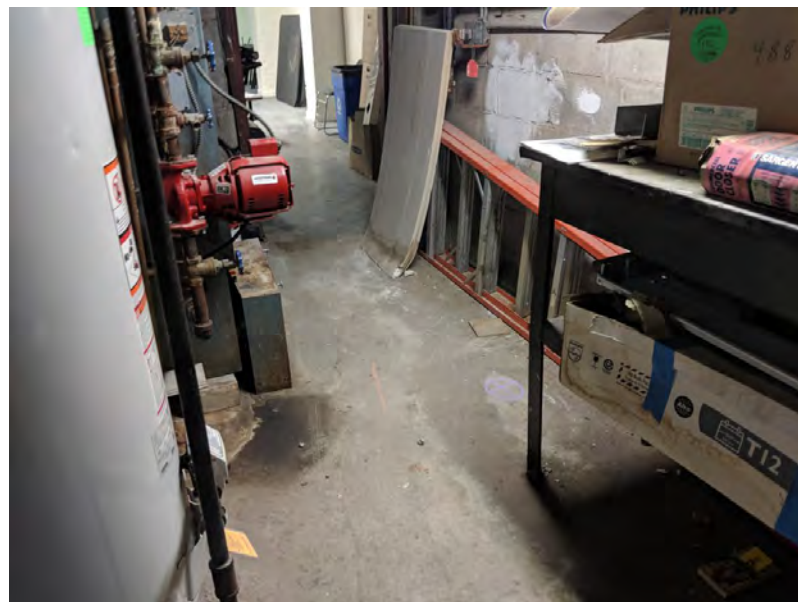
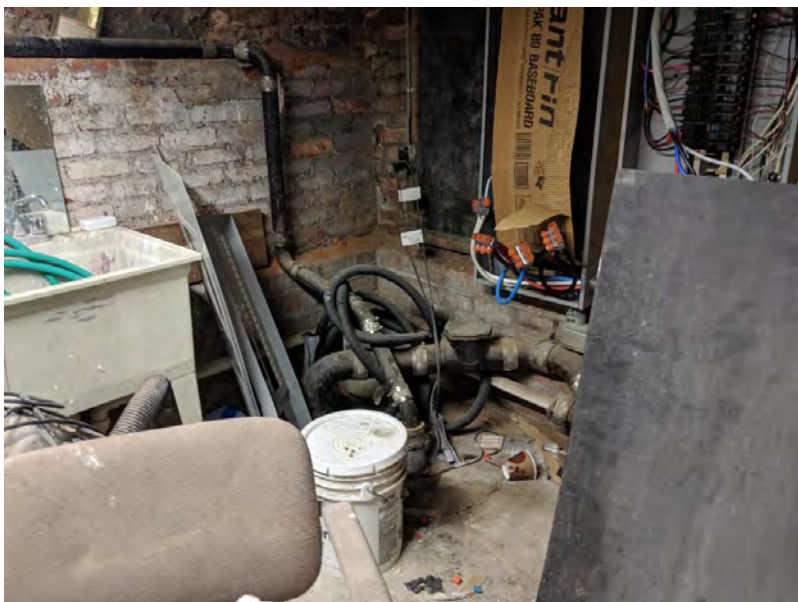
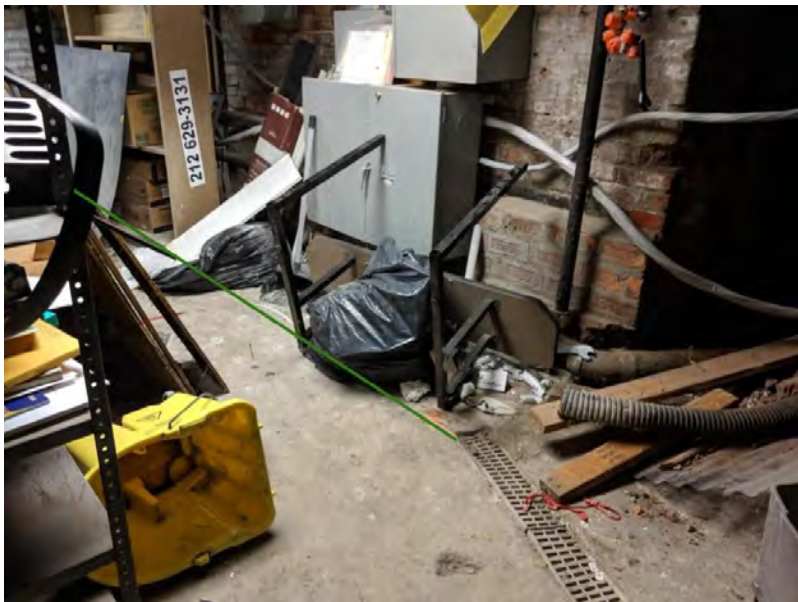
538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

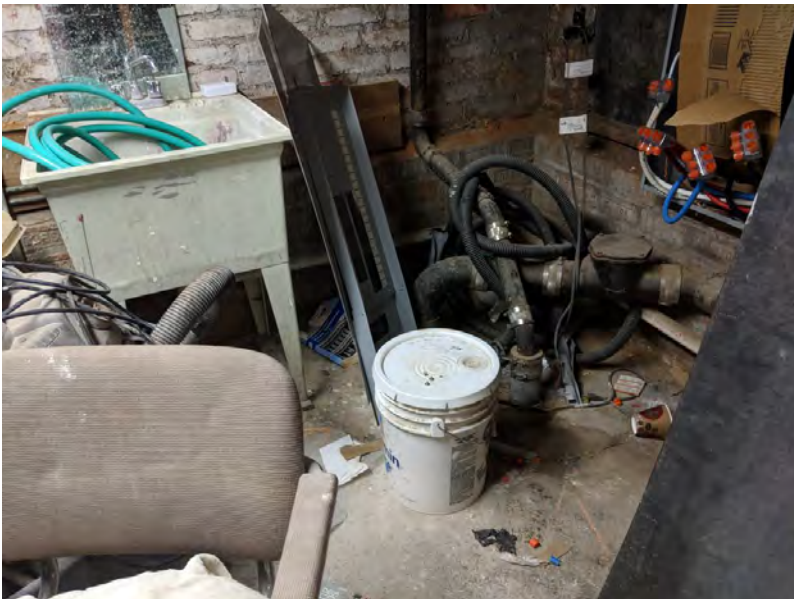
538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

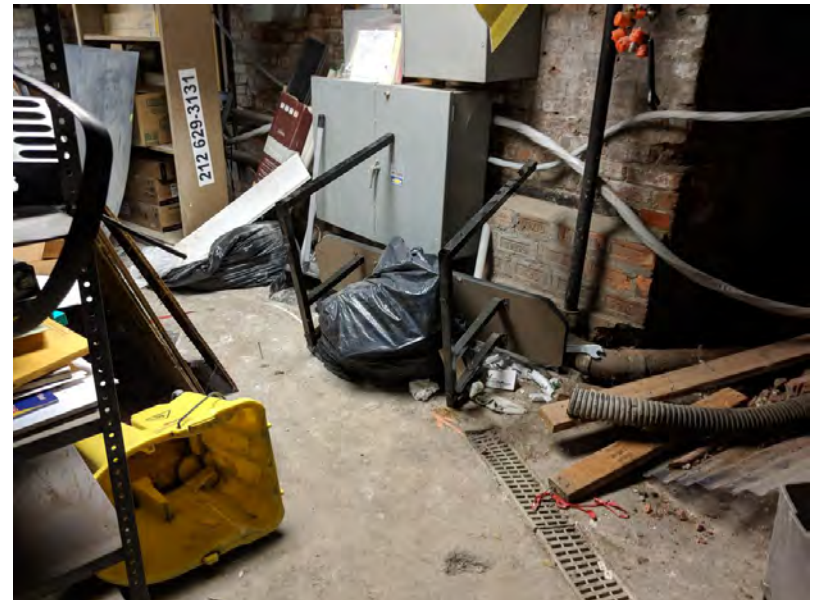
538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



GEOPHYSICAL IMAGES

Commercial Site

538-540 West 29th Street,
New York, New York 10001
May 31st, 2018



APPENDIX D
SOIL BORING LOGS

I:\LANGAN.COM\DATA\NY\DATA41\170515401\PROJECT DATA_DISCIPLINE\ENVIRONMENTAL\GINTLOGS\REMEDIAL INVESTIGATION REPORT\BORING LOGS SB01-SB06.GPJ ... 10/30/2018 11:24:04 AM ... Report Log - LANGAN

Project 538-542 West 29th Street			Project No. 170515401		
Location Manhattan, NY			Elevation and Datum N/A		
Drilling Company AARCO Environmental Services, Corp.			Date Started 5/31/18		Date Finished 5/31/18
Drilling Equipment Geoprobe 420M			Completion Depth 10 ft		Rock Depth N/A
Size and Type of Bit 2-inch Direct Push			Number of Samples		Disturbed 3
Casing Diameter (in) N/A			Casing Depth (ft) N/A		Undisturbed N/A
Casing Hammer N/A			Weight (lbs) N/A		Drop (in) N/A
Sampler 2 foot long Macrocore			Water Level (ft.) First 3		Completion N/A
Sampler Hammer N/A			Weight (lbs) N/A		Drop (in) N/A
			Drilling Foreman Adam Hutchinson		
			Field Engineer Kevin Garrett		

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist B/Join	
		R1a (0-3") CONCRETE	0					
		R1b (3-5") loose, brown, medium SAND, some fine sand, trace fine gravel, slag (dry) [FILL]	1	R1	MACROCORE	18	NA	0.0
		R1c (5-18") medium-dense, red, fine SAND, some medium sand, trace fine gravel (dry) [FILL]	2					0.0
		R2a (0-5") medium-dense, red, fine SAND, trace fine gravel, trace silt (wet) [FILL]	3	R2	MACROCORE	9	NA	0.0
		R2b (5-9") medium-dense, brown, medium SAND, some fine sand (wet)	4					
		R3 (0-4") loose, red, medium SAND, some fine gravel, some fine sand (wet)	5	R3	MACROCORE	4	NA	0.0
		R4 NO RECOVERY	6					
			7	R4	MACROCORE	0	NA	
			8					
		R5a (0-7") loose, red, medium SAND, some fine gravel, trace fine sand (wet)	9	R5	MACROCORE	18	NA	0.0
		R5b (7-18") medium-dense, olive, fine SAND, some silt, some fine gravel (wet)	10					0.0
			11					0.0
			12					0.0
			13					0.0
			14					
			15					
			16					
			17					
			18					
			19					
			20					

End of boring at 10 feet bgs. Backfill with soil cuttings and patch hole with cement.

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Project 538-542 West 29th Street				Project No. 170515401			
Location Manhattan, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 5/31/18		Date Finished 5/31/18	
Drilling Equipment Geoprobe 420M				Completion Depth 10 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Direct Push				Number of Samples		Disturbed 5	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 3		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Adam Hutchinson	
Sampler 2 foot long Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist Bl/ft	
		R1a (0-6") CONCRETE	0					
		R1b (6-13") medium-dense, brown, fine SAND, trace fine gravel, trace wood, trace brick, trace asphalt (dry) [FILL]	1	R1	MACROCORE	20	NA	4.7 2.3
		R1c (13-20") medium-dense, reddish-brown, fine SAND, trace fine gravel (dry) [FILL]	2					1.6
		R2 (0-8") loose, olive, fine SAND, some silt, trace fine sand (wet)	3	R2	MACROCORE	8	NA	0.7
		R3a (0-7") loose, light brown, fine SAND, some medium sand, trace silt (wet)	4					0.0
		R3b (7-16") loose, light brown, fine SAND, some silt (wet)	5	R3	MACROCORE	18	NA	0.0
		R3c (16-18") medium-dense, reddish-brown, fine SAND, trace fine gravel, trace medium sand, trace silt (wet)	6					0.0
		R4a (0-10") loose, reddish-brown, fine SAND, some silt, some fine gravel (wet)	7	R4	MACROCORE	17	NA	0.0
		R4b (10-17") medium-dense, reddish-brown, fine SAND, some silt (wet)	8					0.0
		R5a (0-10") loose, red, fine GRAVEL, some medium sand, some fine sand, trace silt (wet)	9	R5	MACROCORE	16	NA	0.0
		R5b (10-17") loose, dark olive, medium SAND, fine gravel (wet)	10					0.0
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					End of boring at 10 feet bgs. Backfill with soil cuttings and patch hole with cement.

I:\LANGAN.COM\DATA\NY\DATA41\170515401\PROJECT DATA\DISCIPLINE\ENVIRONMENTAL\GINT\LOGS\REMEDIAL INVESTIGATION REPORT\BORING LOGS\SB01-SB06.GPJ ... 10/30/2018 11:24:12 AM ... Report Log - LANGAN

Project 538-542 West 29th Street				Project No. 170515401			
Location Manhattan, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 5/31/18		Date Finished 5/31/18	
Drilling Equipment Geoprobe 420M				Completion Depth 10 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Direct Push				Number of Samples 5		Disturbed N/A	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 3.5		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Adam Hutchinson	
Sampler 2 foot long Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist Bl/In	
[Cross-hatched pattern]	0	R1a (0-2") loose, tan, medium SAND, some fine sand, trace fine gravel, trace concrete (dry) [FILL]	0					Collect Soil Sample SB03_0-1
	1	R1b (2-8") loose, brown, fine SAND, trace fine gravel, trace silt (dry) [FILL]	1	R1	MACROCORE	8	NA	
	2		2				40.7	
	3	R2 (0-9") loose, red, medium SAND, trace fine gravel, trace silt (moist to wet) [FILL]	3	R2	MACROCORE	9	NA	
	4		4				408 357	
[Dotted pattern]	5	R3 (0-9") loose, reddish-brown, medium SAND, some fine gravel, some fine sand (wet)	5	R3	MACROCORE	9	NA	Petroleum-like odor 0-10 feet
	6		6				120	
	7	R4 (0-10") loose, reddish-brown, medium SAND, some fine gravel, some fine sand (wet)	7	R4	MACROCORE	10	NA	
	8	R5a (0-20") loose, reddish-brown, medium SAND, some fine gravel, some fine sand (wet)	8				18.3	
	9	R5b (20-24") medium-dense, olive, fine SAND, some silt, trace medium sand (wet)	9	R5	MACROCORE	24	NA	
	10		10				12.7 6.5 5.2	End of boring at 10 feet bgs. Backfill with soil cuttings and patch hole with cement.
	11		11					
	12		12					
	13		13					
	14		14					
	15		15					
	16		16					
	17		17					
	18		18					
	19		19					
	20		20					

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Project 538-542 West 29th Street				Project No. 170515401			
Location Manhattan, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 6/1/18		Date Finished 6/1/18	
Drilling Equipment Geoprobe 6610DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Direct Push				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 11		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Adam Hutchinson	
Sampler 4 foot long Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist. BL/Join		
		R1a (0-15") CONCRETE	0						
		R1b (15-27") loose, black, fine GRAVEL, some medium sand, trace fine sand, trace brick, trace asphalt, trace wood (dry) [FILL]	1	R1	MACROCORE	27	NA	0.0	Collect Soil Sample SB04_1-3
			2					0.0	
			3					0.0	
			4					0.0	
		R2a (0-1") loose, gray, medium SAND, some fine gravel, trace medium sand (dry) [FILL]	5	R2	MACROCORE	23	NA	0.0	Collect Soil Sample SB04_6-8
		R2b (1-17") loose, brown, medium SAND, some fine gravel, some fine sand, trace brick, trace asphalt (dry) [FILL]	6					0.0	
		R2c (17-23") medium-dense, brown, fine SAND, some coarse gravel, trace silt, trace charcoal (dry) [FILL]	7					0.0	
			8					0.0	
		R3 (0-19") medium-dense, brown, fine SAND, some silt, trace fine gravel (moist to wet)	9	R3	MACROCORE	19	NA	0.0	Collect Soil Sample SB04_10-12
			10					0.0	
			11					0.0	
			12					0.0	
		R4a (0-1") medium-dense, black, fine SAND, some medium sand, trace fine gravel (wet)	13	R4	MACROCORE	23	NA	0.0	End of boring at 16 feet bgs. Backfill with soil cuttings and patch hole with cement.
		R4b (1-11") soft, brown, fine SAND, some silt (wet)	14					0.0	
		R4c (11-23") medium-dense, reddish-brown, medium SAND, some fine sand (wet)	15					0.0	
			16					0.0	
			17						
			18						
			19						
			20						

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Project 538-542 West 29th Street				Project No. 170515401			
Location Manhattan, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 6/1/18		Date Finished 6/1/18	
Drilling Equipment Geoprobe 6610DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Direct Push				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 11		Completion N/A	Core N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Adam Hutchinson	
Sampler 4 foot long Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist. Bl/In		PID Reading (ppm)
		R1a (0-14") CONCRETE	0					0.0	Collect Soil Sample SB05_0-2
		R1b (14-28") dense, gray to black, fine GRAVEL, some medium sand, some fine sand, some charcoal, some slag, some ash (dry) [FILL]	1					0.0	
			2	R1	MACROCORE	28	NA	0.0	
			3						
		R2a (0-10") loose, light brown, fine SAND, some fine gravel, some concrete, some asphalt (dry) [FILL]	4						Collect Soil Sample SB05_7-8
			5						
		R2b (10-14") medium-dense, brown, fine SAND, trace silt, trace coarse gravel (moist)	6	R2	MACROCORE	14	NA	0.0	
			7					0.0	
		R3a (0-4") dense, brown, fine SAND, trace silt, trace fine gravel (wet) R3b (4-12") loose, reddish-brown, medium SAND, some fine sand, trace silt (wet)	8						Collect Soil Samples SB05_11-12 and SBDUP02_060118
			9						
			10	R3	MACROCORE	12	NA		
		11					0.0		
		12					0.0		
		13							
		R4a (0-9") loose, brown, medium SAND, some fine sand, trace fine gravel, trace silt (wet)	14	R4	MACROCORE	9	NA		End of boring at 16 feet bgs. Backfill with soil cuttings and patch hole with cement.
			15					0.0	
			16						
		17							
			18						
			19						
			20						

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Project 538-542 West 29th Street				Project No. 170515401			
Location Manhattan, NY				Elevation and Datum N/A			
Drilling Company AARCO Environmental Services, Corp.				Date Started 6/1/18		Date Finished 6/1/18	
Drilling Equipment Geoprobe 6610DT				Completion Depth 16 ft		Rock Depth N/A	
Size and Type of Bit 2-inch Direct Push				Number of Samples		Disturbed 4	Undisturbed N/A
Casing Diameter (in) N/A		Casing Depth (ft) N/A		Water Level (ft.) First 11		Completion N/A	24 HR. N/A
Casing Hammer N/A		Weight (lbs) N/A		Drop (in) N/A		Drilling Foreman Adam Hutchinson	
Sampler 4 foot long Macrocore				Field Engineer Kevin Garrett			
Sampler Hammer N/A		Weight (lbs) N/A		Drop (in) N/A			

MATERIAL SYMBOL	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist	BL/Join		PID Reading (ppm)
		R1a (0-17") CONCRETE	0						0.0	Collect Soil Sample SB06_0-2
		R1b (17-26") loose, brown, fine SAND, some medium sand, trace fine gravel (dry) [FILL]	1						0.0	
			2	R1	MACROCORE	26	NA		2.2	
			3						1.0	
			4							Collect Soil Sample SB06_4-6
		R2a (0-7") loose, brown, fine SAND, trace medium sand, trace fine gravel (dry) [FILL] R2b (7-12") medium-dense, tan, fine SAND, trace silt, trace fine gravel (dry) [FILL] R2c (12-15") medium-dense, black, medium SAND, some fine gravel, trace fine sand (dry) [FILL] R2d (15-23") dense, reddish-brown, medium SAND, some fine sand, some fine gravel, trace silt (moist)	5							
			6	R2	MACROCORE	23	NA		0.0	Collect Soil Sample SB06_6-8
			7						0.0	
			8						0.0	
		R3 (0-15") dense, reddish-brown, medium SAND, some fine gravel, trace fine sand (wet)	9							
			10	R3	MACROCORE	15	NA			
			11						0.0	
			12						0.0	Collect Soil Sample SB06_12-14
		R4a (0-21") medium-dense, reddish-brown, fine SAND, some fine gravel, trace medium sand (wet) R4b (21-29") dense, tan, medium SAND, some fine sand, trace fine gravel (wet) R4c (29-48") dense, gray, medium SAND, some fine sand, trace fine gravel (wet)	13							
			14	R4	MACROCORE	48	NA		1.6	Petroleum-like odor at 14 feet, gray staining
			15						0.1	
			16						0.0	Collect Soil Sample SB06_14-16
			17					0.0	End of boring at 16 feet bgs. Backfill with soil cuttings and patch with cement.	
			18							
			19							
			20							

APPENDIX E
GROUNDWATER MONITORING WELL CONSTRUCTION AND
SAMPLING LOGS

WELL DEVELOPMENT SUMMARY

Well No.

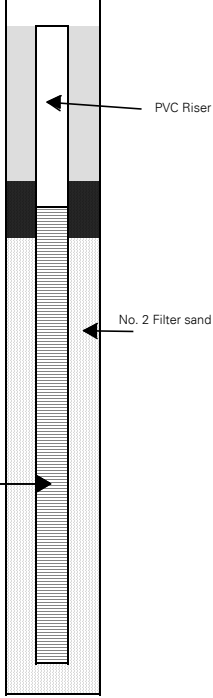
TW03

PROJECT		PROJECT NO.	
538-542 West 29th St		170515401	
LOCATION		ELEVATION AND DATUM	
New York, New York		NA	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services, Corp.		5/31/2018	5/31/2018
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 420 M		Adam Hutchinson	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Kevin Garrett	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2 inches		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1 inch	No. 2 sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	1 inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
<p>A Geoprobe 420 M limited access rig was used to advance the boring SB05 to about 10.5 feet below cellar grade. A 1-inch diameter PVC temporary monitoring well was installed which consisted of 10 feet of 0.020-inch well screen, and 1 foot of solid 1-inch diameter PVC riser. The well screen was installed from about 10.5 below cellar grade to 0.5 feet above cellar grade. The temporary well was backfilled with clean No. 2 sand and sealed with 6 inches of bentonite. Following sampling activities, the temporary well was removed, the borehole was backfilled with No. 2 sand, sealed with bentonite, and the concrete cover was restored.</p>			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Peristaltic
DRILLER OR LANGAN	Langan	MAX PUMP RATE	1 LPM
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	1.5 gal
DEVELOPMENT CONFIRMATION	Well developed using peristaltic pump and dedicated polyethylene tubing.		
TOP OF CASING	ELEVATION	DEPTH (ft)	<p style="text-align: center;">WELL DETAILS</p>
1-foot casing length	NA	(+) 0.5	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	NA	(-) 0.5	
TOP OF FILTER	ELEVATION	DEPTH (ft)	
	NA	0.0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	
	NA	0.0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	
	NA	10.5	
SCREEN LENGTH	10 feet		
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	<p style="text-align: center;">SUMMARY SOIL CLASSIFICATION</p> <p>(Above Cellar Grade)</p> <p>Bentonite Seal</p> <p>No. 2 Filter Sand</p>
NA	5/31/2018	3.2 ft	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	(-) 10.5
<p>LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.</p> <p>21 Penn Plaza, 360 West 31st Street, 8th Floor, New York</p>			

WELL DEVELOPMENT SUMMARY

Well No.

TW05

PROJECT		PROJECT NO.	
538-542 W 29th St		170515401	
LOCATION		ELEVATION AND DATUM	
New York, New York		NA	
DRILLING AGENCY		DATE STARTED	DATE FINISHED
AARCO Environmental Services, Corp.		6/1/2018	6/1/2018
DRILLING EQUIPMENT		DRILLER	
Geoprobe® 6610 DT		Adam Hutchinson	
SIZE AND TYPE OF BIT		INSPECTOR	
2-inch Direct Push		Kevin Garrett	
BOREHOLE DIAMETER		TYPE OF WELL (OVERBURDEN / BEDROCK)	
2 inch		Overburden	
RISER MATERIAL	DIAMETER	TYPE OF BACKFILL MATERIAL	
PVC	1 inch	No. 2 sand	
TYPE OF SCREEN	DIAMETER	TYPE OF WELL PACK	TYPE OF SEAL MATERIAL
PVC No. 20 Slot	1 inch	No. 2 Sand	Bentonite
METHOD OF INSTALLATION			
<p>A track-mounted Geoprobe 6610 DT rig was used to advance the boring SB05 to about to about 16 feet below cellar grade. A 1-inch diameter PVC temporary monitoring well was installed which consisted of 10 feet of 0.020-inch well screen, and 6 feet of solid 1-inch diameter PVC riser. The well screen was installed from about 16 to 0 feet below cellar grade. The temporary well was backfilled with clean No. 2 sand (filter boack) and sealed with about 12 inches of hydrated bentonite. The remaining portion of the borehole surrounding the PVC riser was backfilled with soil cuttings exhibiting no impacts. Following sampling activities, the temporary well was removed, the borehole was backfilled with No. 2 sand, sealed with bentonite, and the concrete cover was restored.</p>			
WELL DEVELOPMENT DATA			
SURGE BLOCK DIAMETER	N/A	TYPE PUMP	Peristaltic
DRILLER OR LANGAN	Langan	MAX PUMP RATE	1 LPM
NUMBER OF SURGE CYCLES	N/A	TOTAL VOLUME	1.25 gal
			Well developed using peristaltic pump.
TOP OF CASING	ELEVATION	DEPTH (ft)	WELL DETAILS
	NA	0	
TOP OF SEAL	ELEVATION	DEPTH (ft)	
	NA	(-) 5.0	
TOP OF FILTER	ELEVATION	DEPTH (ft)	Soil Cuttings (Backfill)
	NA	(-) 6.0	
TOP OF SCREEN	ELEVATION	DEPTH (ft)	Bentonite Seal
	NA	(-) 6.0	
BOTTOM OF BORING	ELEVATION	DEPTH (ft)	No. 2 Filter Sand
	NA	(-) 16.0	
SCREEN LENGTH	10 feet		
SLOT SIZE	No. 20 Slot; 0.020 Inches		
GROUNDWATER ELEVATIONS			
ELEVATION	DATE	DEPTH TO WATER	
NA	6/1/2018	9.2 ft	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
ELEVATION	DATE	DEPTH TO WATER	
LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.			
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York			

GROUND WATER SAMPLE FIELD INFORMATION FORM

Project Information		Well Information		Equipment Information			Sampling Conditions		Sampling Information		
Project Name:	538-542 W 29th St	Well No:	TW03	Water Quality Device Model:	Horiba	Weather:	Indoors	Sample(s):	TW03_060118		
Project Number:	170515401	Well Depth:	16-feet	Pine Number:	21336	Background PID (ppm):	0.0				
Site Location:	Manhattan	Well Diameter:	1-inch	Pump Make and Model:	Solinst peri	PID Beneath Inner Cap (ppm):	47.9	Sample Date:	6/1/2018		
Sampling Personnel:	Kevin Garrett	Well Screen Interval:	10 feet	Pine Number:	903371	Pump Intake Depth:	15-feet		Sample Time:	11:30	
		Interval:	0-10 feet	Tubing Diameter:	3/8" ID	Depth to Water Before Purge:	3.2-feet				
<i>STABILIZATION = 3 successive readings within limits</i>											
TIME	TEMP °Celsius (+/- 3%)	PH (+/- 0.1)	ORP mV (+/- 10mV)	CONDUCTIVITY mS/cm (+/- 3%)	TURBIDITY ntu (+/- 10%) above 5 NTU	DO mg/l (+/- 10%) above 0.5 mg/l	DTW ft Drawdown < 0.33 ft	Flow Rate (gpm) <0.13 gpm)	Cumulative Discharge Volume (Gal)	NOTES color, odor etc.	Stabilized?
BEGIN PURGING											
10:05	18.57	7.10	-60	0.30	1001.0	0.29	3.20		0.05	petroleum-like odors	N/A
10:10	18.40	7.14	-65	0.30	1001.0	0.45		0.24	1.25		N/A
10:15	18.41	7.12	-65	0.30	1001.0	0.48		0.1	1.75		Y
10:20	18.41	7.08	-65	0.30	1001.0	0.47		0.09	2.2		Y
10:25	18.41	7.03	-64	0.29	1001.0	0.42		0.06	2.5		Y
10:30	18.39	7.02	-64	0.29	1001.0	0.35		0.1	3		Y
10:35	18.38	6.99	-63	0.29	1001.0	0.19		0.1	3.5		Y
10:40	18.39	6.99	-63	0.29	1001.0	0.19		0.14	4.2		Y
10:45	18.38	6.99	-63	0.29	936.0	0.17		0.11	4.75		Y
10:50	18.35	6.98	-63	0.29	1000.0	0.15		0.07	5.1		Y
10:55	18.37	6.90	-45	0.28	967.0	0.31		0.13	5.75		N
11:00	18.35	6.91	-48	0.28	813.0	0.20		0.02	5.85	Water purged for 1 hour prior to sampling	N
11:05	18.34	6.91	-50	0.28	722.0	0.13		0.05	6.1		N
11:10	18.36	6.91	-53	0.28	441.0	0.08		0.14	6.8		N

Notes:

- Well depths and groundwater depths were measured in feet below the top of well casing.
- Well and tubing diameters are measured in inches.
- PID = Photoionization Detector
- PPM = Parts per million
- pH = Hydrogen ion concentration
- ORP = Oxidation-reduction potential, measured in millivolts (mV)
- DO = Dissolved Oxygen, measured in milligrams per liter (mg/L)
- DTW = Depth to water
- mS/cm = millisiemens per centimeter
- NTU = Nephelometric Turbidity Unit

LANGAN Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York

APPENDIX F
SOIL VAPOR CONSTRUCTION AND SAMPLING LOGS

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV01_060118

PROJECT: 538-542 W 29th St		PROJECT NO.: 170515401																									
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: NA																									
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 5/31/2018	DATE FINISHED: 5/31/2018																								
INSTALLATION FOREMAN: Adam Hutchinson		SAMPLE DATE STARTED: 6/1/2018	DATE FINISHED: 6/1/2018																								
INSTALLATION EQUIPMENT: Geoprobe® 6610 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																									
INSPECTOR: Kevin Garrett		SAMPLER: Kevin Garrett																									
POTENTIAL SAMPLE INTERFERENCES: None		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 70s Wind: Indoors Precipitation: Indoors Pressure: 30.04																									
METHOD OF INSTALLATION AND PURGING: Advance Geoprobe 6610 DT to 7 feet below grade surface (bgs), install 2-inch soil vapor probe, backfill with No. 2 sand to 0.5 feet bgs, and seal to surface with hydrated bentonite.																											
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: None																									
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																									
BOREHOLE DIAMETER: 2 inches		FILTER PACK MATERIAL (Sand or Glass Beads): None (Preferred)																									
PURGE VOLUME (L): 0.02		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th style="text-align: center;">DEPTH (FEET FROM SURFACE)</th> <th style="text-align: center;">NOTES</th> </tr> <tr> <th style="width: 50%;">SURFACE</th> <th style="width: 50%;">SURFACE</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">Top of Seal</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">0.5</td> <td style="text-align: center;">Top of Pack</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">7</td> <td style="text-align: center;">Tube Depth</td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE									0.0	Top of Seal			0.5	Top of Pack			7	Tube Depth
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)				DEPTH (FEET FROM SURFACE)	NOTES																						
SURFACE	SURFACE																										
				0.0	Top of Seal																						
				0.5	Top of Pack																						
				7	Tube Depth																						
PURGE FLOW RATE (ML/MIN): 200																											
PID AFTER PURGE (PPM): 24																											
HELIUM TESTS																											
Pre-sampling Post-sampling																											
HELIUM TEST IN BUCKET(%): 18.5% 15.7%																											
HELIUM TEST IN TUBE (PPM): 0.0% 0.0%																											
SAMPLE START TIME: 12:00																											
SAMPLE STOP TIME: 14:00																											
TOTAL SAMPLE TIME (MIN): 120																											
REGULATOR FLOW RATE (L/MIN): 0.0225																											
VOLUME OF SAMPLE (LITERS): 2.70																											
PID AFTER SAMPLE (PPM): 23.3																											
SAMPLE MOISTURE CONTENT: NA																											
CAN SERIAL NUMBER: 2184																											
REGULATOR SERIAL NUMBER: 1006																											
CAN START VACUUM PRESS. (" HG): -29.66																											
CAN STOP VACUUM PRESS. (" HG): -6.48																											
SAMPLE LOCATION SKETCH																											
See Sample Location Plan		NOTES																									
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727																											

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV02_060118

PROJECT: 538-542 W 29th St		PROJECT NO.: 170515401																									
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: NA																									
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 5/31/2018	DATE FINISHED: 5/31/2018																								
INSTALLATION FOREMAN: Adam Hutchinson		SAMPLE DATE STARTED: 6/1/2018	DATE FINISHED: 6/1/2018																								
INSTALLATION EQUIPMENT: Portable Electric Rig		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																									
INSPECTOR: Adam Hutchinson		SAMPLER: Kevin Garrett																									
POTENTIAL SAMPLE INTERFERENCES: None		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 70s Wind: Indoors Precipitation: Indoors Pressure: 30.04																									
METHOD OF INSTALLATION AND PURGING: AARCO advanced subslab vapor point to 3-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. No. 2 sand was backfilled around the tubing to 1 inch below grade surface, and the remainder of the borehole was sealed with bentonite.																											
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: NA																									
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																									
BOREHOLE DIAMETER: 2 inches		FILTER PACK MATERIAL (Sand or Glass Beads): None (Preferred)																									
PURGE VOLUME (L): 0.02		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS</th> <th style="text-align: center;">DEPTH</th> <th style="text-align: center;">NOTES</th> </tr> <tr> <th colspan="2" style="text-align: center;">(SEAL, FILTER, ETC.)</th> <th style="text-align: center;">(FEET FROM SURFACE)</th> <th></th> </tr> <tr> <th style="text-align: center;">SURFACE</th> <th style="text-align: center;">SURFACE</th> <th style="text-align: center;">SURFACE</th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Top of Seal</td> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">0.0</td> <td></td> </tr> <tr> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">0.1</td> <td></td> </tr> <tr> <td style="text-align: center;">Tube Depth</td> <td style="text-align: center;">Tube Depth</td> <td style="text-align: center;">0.3</td> <td></td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS		DEPTH	NOTES	(SEAL, FILTER, ETC.)		(FEET FROM SURFACE)		SURFACE	SURFACE	SURFACE		Top of Seal	Top of Pack	0.0		Top of Pack	Top of Pack	0.1		Tube Depth	Tube Depth	0.3	
IMPLANT/PROBE DETAILS				DEPTH	NOTES																						
(SEAL, FILTER, ETC.)				(FEET FROM SURFACE)																							
SURFACE	SURFACE			SURFACE																							
Top of Seal	Top of Pack			0.0																							
Top of Pack	Top of Pack			0.1																							
Tube Depth	Tube Depth			0.3																							
PURGE FLOW RATE (ML/MIN): 200																											
PID AFTER PURGE (PPM): 134																											
HELIUM TESTS																											
Pre-sampling Post-sampling																											
HELIUM TEST IN BUCKET(%): 15.6% 17.6%																											
HELIUM TEST IN TUBE (PPM): 0.0% 0.0%																											
SAMPLE START TIME: 8:48																											
SAMPLE STOP TIME: 10:48																											
TOTAL SAMPLE TIME (MIN): 120																											
REGULATOR FLOW RATE (L/MIN): 0.0225																											
VOLUME OF SAMPLE (LITERS): 2.70																											
PID AFTER SAMPLE (PPM): 127																											
SAMPLE MOISTURE CONTENT: NA																											
CAN SERIAL NUMBER: 1745																											
REGULATOR SERIAL NUMBER: 1029																											
CAN START VACUUM PRESS. (" HG): -29.74																											
CAN STOP VACUUM PRESS. (" HG): -6.15																											
SAMPLE LOCATION SKETCH																											
See Sample Location Plan		NOTES																									
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727																											

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV03_060118

PROJECT: 538-542 W 29th St		PROJECT NO.: 170515401																									
LOCATION: Manhattan		SURFACE ELEVATION AND DATUM: NA																									
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 6/1/2018	DATE FINISHED: 6/1/2018																								
INSTALLATION FOREMAN: Adam Hutchinson		SAMPLE DATE STARTED: 6/1/2018	DATE FINISHED: 6/1/2018																								
INSTALLATION EQUIPMENT: Geoprobe® 6610 DT		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister																									
INSPECTOR: Kevin Garrett		SAMPLER: Kevin Garrett																									
POTENTIAL SAMPLE INTERFERENCES: None		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 70s Wind: Indoors Precipitation: Indoors Pressure: 30.04																									
METHOD OF INSTALLATION AND PURGING: Advance Geoprobe 6610 DT to 7 feet below grade surface (bgs), install 2-inch soil vapor probe, backfill with No. 2 sand to 0.5 feet bgs, seal to surface with hydrated bentonite.																											
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: None																									
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite																									
BOREHOLE DIAMETER: 2 inches		FILTER PACK MATERIAL (Sand or Glass Beads): None (Preferred)																									
PURGE VOLUME (L): 0.02		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th style="text-align: center;">DEPTH (FEET FROM SURFACE)</th> <th style="text-align: center;">NOTES</th> </tr> <tr> <th style="width: 50%;">SURFACE</th> <th style="width: 50%;">SURFACE</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">Top of Seal</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">0.5</td> <td style="text-align: center;">Top of Pack</td> </tr> <tr> <td style="text-align: center;"> </td> <td style="text-align: center;"> </td> <td style="text-align: center;">7</td> <td style="text-align: center;">Tube Depth</td> </tr> </tbody> </table>		IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE									0.0	Top of Seal			0.5	Top of Pack			7	Tube Depth
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)				DEPTH (FEET FROM SURFACE)	NOTES																						
SURFACE	SURFACE																										
				0.0	Top of Seal																						
				0.5	Top of Pack																						
				7	Tube Depth																						
PURGE FLOW RATE (ML/MIN): 200																											
PID AFTER PURGE (PPM): 27.3																											
HELIUM TESTS																											
Pre-sampling Post-sampling																											
HELIUM TEST IN BUCKET(%): 18.5% 13.9%																											
HELIUM TEST IN TUBE (PPM): 0.0% 0.0%																											
SAMPLE START TIME: 12:00																											
SAMPLE STOP TIME: 14:00																											
TOTAL SAMPLE TIME (MIN): 120																											
REGULATOR FLOW RATE (L/MIN): 120																											
VOLUME OF SAMPLE (LITERS): 0.0225																											
PID AFTER SAMPLE (PPM): 2.70																											
SAMPLE MOISTURE CONTENT: NA																											
CAN SERIAL NUMBER: 478																											
REGULATOR SERIAL NUMBER: 745																											
CAN START VACUUM PRESS. (" HG): -29.71																											
CAN STOP VACUUM PRESS. (" HG): -5.6																											
SAMPLE LOCATION SKETCH		NOTES																									
See Sample Location Plan																											
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727																											

SOIL VAPOR SAMPLING LOG SHEET

Sample Number: SV04_060118

PROJECT: 538-542 W 29th St		PROJECT NO.: 170515401															
LOCATION: New York, New York		SURFACE ELEVATION AND DATUM: NA															
DRILLING FIRM OR LANGAN INSTALLER: AARCO Environmental Services, Corp.		INSTALLATION DATE STARTED: 5/31/2018	DATE FINISHED: 5/31/2018														
INSTALLATION FOREMAN: Adam Hutchinson		SAMPLE DATE STARTED: 6/1/2018	DATE FINISHED: 6/1/2018														
INSTALLATION EQUIPMENT: Portable Electric Rig		TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister															
INSPECTOR: Kevin Garrett		SAMPLER: Kevin Garrett															
POTENTIAL SAMPLE INTERFERENCES: None		WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 70s Wind: Indoors Precipitation: Indoors Pressure: 30.04															
METHOD OF INSTALLATION AND PURGING: AARCO advanced subslab vapor point to 3-inches below the top of the slab. A small amount of No. 2 sand was backfilled into the borehole to set the vapor tubing. No. 2 sand was backfilled around the tubing to 1 inch bgs, and the remainder of the borehole was sealed with bentonite.																	
TUBING TYPE/DIAMETER: 3/16-inch ID, 1/4-inch OD Teflon-Lined Polyethylene Tubing		TYPE OF MATERIAL ABOVE SEAL: None															
IMPLANT SCREEN TYPE/LENGTH/DIAMETER: 2-inch Polyethylene Probe		SEAL MATERIAL (Bentonite, Beeswax, Modeling Clay, etc.): Bentonite															
BOREHOLE DIAMETER: 2 inches		FILTER PACK MATERIAL (Sand or Glass Beads): None (Preferred)															
PURGE VOLUME (L): 0.02		<table border="1" style="margin: auto;"> <thead> <tr> <th colspan="2">IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)</th> <th rowspan="2">DEPTH (FEET FROM SURFACE)</th> <th rowspan="2">NOTES</th> </tr> <tr> <th>SURFACE</th> <th>SURFACE</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Top of Seal</td> <td style="text-align: center;">0.0</td> <td></td> </tr> <tr> <td style="text-align: center;">Top of Pack</td> <td style="text-align: center;">0.1</td> <td></td> </tr> <tr> <td style="text-align: center;">Tube Depth</td> <td style="text-align: center;">0.3</td> <td></td> </tr> </tbody> </table>	IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)		DEPTH (FEET FROM SURFACE)	NOTES	SURFACE	SURFACE	Top of Seal	0.0		Top of Pack	0.1		Tube Depth	0.3	
IMPLANT/PROBE DETAILS (SEAL, FILTER, ETC.)			DEPTH (FEET FROM SURFACE)	NOTES													
SURFACE	SURFACE																
Top of Seal	0.0																
Top of Pack	0.1																
Tube Depth	0.3																
PURGE FLOW RATE (ML/MIN): 200																	
PID AFTER PURGE (PPM): 5000+																	
HELIUM TESTS																	
<table border="1" style="margin: auto;"> <tr> <th>Pre-sampling</th> <th>Post-sampling</th> </tr> <tr> <td style="text-align: center;">18.5%</td> <td style="text-align: center;">14.2%</td> </tr> <tr> <td style="text-align: center;">0.0%</td> <td style="text-align: center;">0.0%</td> </tr> </table>			Pre-sampling	Post-sampling	18.5%	14.2%	0.0%	0.0%									
Pre-sampling	Post-sampling																
18.5%	14.2%																
0.0%	0.0%																
HELIUM TEST IN BUCKET(%):																	
HELIUM TEST IN TUBE (PPM):																	
SAMPLE START TIME: 8:44																	
SAMPLE STOP TIME: 10:44																	
TOTAL SAMPLE TIME (MIN): 120																	
REGULATOR FLOW RATE (L/MIN): 0.0225																	
VOLUME OF SAMPLE (LITERS): 2.70																	
PID AFTER SAMPLE (PPM): 5000+																	
SAMPLE MOISTURE CONTENT: NA																	
CAN SERIAL NUMBER: 2241																	
REGULATOR SERIAL NUMBER: 931																	
CAN START VACUUM PRESS. (" HG): -28.44																	
CAN STOP VACUUM PRESS. (" HG): -5.02																	
SAMPLE LOCATION SKETCH		NOTES															
<p>See Sample Location Plan</p>																	
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727																	

AIR SAMPLING LOG SHEET
Sample Number: SVAA_060118

PROJECT: 538-542 W 29th St	PROJECT NO.: 170515401	
LOCATION: New York, New York	SURFACE ELEVATION AND DATUM: NA	
SAMPLER: Kevin Garrett	SAMPLE DATE STARTED: 6/1/2018	DATE FINISHED: 6/1/2018
INSPECTOR: Kevin Garrett	TYPE OF SAMPLING DEVICE: 2.7-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None	WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.): Temp: 70s Wind: Indoors Precipitation: Indoors Pressure: 30.04	

METHOD OF INSTALLATION AND SAMPLING:
Langan field screened the sample location with a MiniRAE 3000 photoionization detector prior to sampling. Sample consisted of 2.7 L Summa canister fitted with a 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked every half hour during sampling to ensure proper operation.

SAMPLE DETAILS		SAMPLE LOCATION SKETCH
HEIGHT ABOVE GROUND (FT):	3	See Sample Location Plan
PID BEFORE SAMPLE (PPM):	0.0	
SAMPLE START TIME:	12:49	
SAMPLE STOP TIME:	14:49	
TOTAL SAMPLE TIME (MIN):	120	
REGULATOR FLOW RATE (L/MIN):	0.0025	
VOLUME OF SAMPLE (LITERS):	2.7	
PID AFTER SAMPLE (PPM):	0.0	
SAMPLE MOISTURE CONTENT:	NA	
CAN SERIAL NUMBER:	553	
REGULATOR SERIAL NUMBER:	809	
CAN START VACUUM PRESS. (" HG):	-29.88	
CAN STOP VACUUM PRESS. (" HG):	-4.78	

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX G
LABORATORY ANALYTICAL REPORTS



ANALYTICAL REPORT

Lab Number:	L1820045
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Emily Snead
Phone:	(212) 479-5432
Project Name:	538-542 WEST 29TH ST.
Project Number:	170515401
Report Date:	06/07/18

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

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

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



Project Name: 538-542 WEST 29TH ST.**Project Number:** 170515401**Lab Number:** L1820045**Report Date:** 06/07/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1820045-01	SB01_0-2	SOIL	MANHATTAN	05/31/18 12:12	05/31/18
L1820045-02	SB01_3-4	SOIL	MANHATTAN	05/31/18 12:22	05/31/18
L1820045-03	SB01_8-9	SOIL	MANHATTAN	05/31/18 12:29	05/31/18
L1820045-04	SB02_0-2	SOIL	MANHATTAN	05/31/18 11:20	05/31/18
L1820045-05	SB02_4-6	SOIL	MANHATTAN	05/31/18 11:27	05/31/18
L1820045-06	SB02_6-8	SOIL	MANHATTAN	05/31/18 11:35	05/31/18
L1820045-07	SB03_0-1	SOIL	MANHATTAN	05/31/18 09:58	05/31/18
L1820045-08	SB03_3-4	SOIL	MANHATTAN	05/31/18 10:05	05/31/18
L1820045-09	SB03_7-8	SOIL	MANHATTAN	05/31/18 10:17	05/31/18
L1820045-10	SBDUP01_053118	SOIL	MANHATTAN	05/31/18 00:00	05/31/18
L1820045-11	SBTB01_053118	WATER	MANHATTAN	05/31/18 00:00	05/31/18

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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

HOLD POLICY

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

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

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1820045-04 was analyzed as a High Level Methanol in order to quantitate the sample within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L1820045-08: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

Pesticides

L1820045-01: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (287%/202%); however, the sample was not re-extracted due to coelution with obvious interferences.

L1820045-04, -07, and -08: The sample has elevated detection limits due to the dilution required by the elevated concentrations of non-target compounds in the sample.

L1820045-07: The surrogate recoveries are below the acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (0%) and decachlorobiphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L1820045-08: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (180%/172%); however, the sample was not re-extracted due to coelution with obvious interferences.

L1820045-10: The surrogate recoveries are outside the acceptance criteria for decachlorobiphenyl (406%/266%); however, the sample was not re-extracted due to coelution with obvious interferences.

Total Metals

L1820045-01 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Case Narrative (continued)

Cyanide, Total

The WG1122457-2/-3 LCS/LCSD recoveries (33%/58%), associated with L1820045-01 through -08, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. The LCS/LCSD RPD (56%) is above the acceptance criteria.

The WG1122460-2/-3 LCS/LCSD recoveries (33%/58%), associated with L1820045-09 and -10, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported. In addition, the WG1122460-2/-3 LCS/LCSD RPD (55%) is above the acceptance criteria.

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

Authorized Signature:

 Amita Naik

Title: Technical Director/Representative

Date: 06/07/18

ORGANICS

VOLATILES

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 12:37
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	11	1.8	1
1,1-Dichloroethane	ND		ug/kg	1.6	0.29	1
Chloroform	ND		ug/kg	1.6	0.40	1
Carbon tetrachloride	ND		ug/kg	1.1	0.37	1
1,2-Dichloropropane	ND		ug/kg	3.8	0.24	1
Dibromochloromethane	ND		ug/kg	1.1	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.6	0.34	1
Tetrachloroethene	ND		ug/kg	1.1	0.32	1
Chlorobenzene	ND		ug/kg	1.1	0.37	1
Trichlorofluoromethane	ND		ug/kg	5.4	0.45	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Bromodichloromethane	ND		ug/kg	1.1	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.22	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.25	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.22	1
1,1-Dichloropropene	ND		ug/kg	5.4	0.35	1
Bromoform	ND		ug/kg	4.3	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.32	1
Benzene	ND		ug/kg	1.1	0.21	1
Toluene	ND		ug/kg	1.6	0.21	1
Ethylbenzene	ND		ug/kg	1.1	0.18	1
Chloromethane	ND		ug/kg	5.4	0.47	1
Bromomethane	ND		ug/kg	2.1	0.36	1
Vinyl chloride	ND		ug/kg	2.1	0.34	1
Chloroethane	ND		ug/kg	2.1	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.40	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.26	1

Project Name: 538-542 WEST 29TH ST.**Lab Number:** L1820045**Project Number:** 170515401**Report Date:** 06/07/18**SAMPLE RESULTS**

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.32	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.23	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.20	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.16	1
p/m-Xylene	ND		ug/kg	2.1	0.38	1
o-Xylene	ND		ug/kg	2.1	0.36	1
Xylenes, Total	ND		ug/kg	2.1	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.37	1
1,2-Dichloroethene, Total	ND		ug/kg	1.1	0.26	1
Dibromomethane	ND		ug/kg	11	0.26	1
Styrene	ND		ug/kg	2.1	0.43	1
Dichlorodifluoromethane	ND		ug/kg	11	0.54	1
Acetone	ND		ug/kg	11	2.5	1
Carbon disulfide	ND		ug/kg	11	1.2	1
2-Butanone	ND		ug/kg	11	0.74	1
Vinyl acetate	ND		ug/kg	11	0.16	1
4-Methyl-2-pentanone	ND		ug/kg	11	0.26	1
1,2,3-Trichloropropane	ND		ug/kg	11	0.19	1
2-Hexanone	ND		ug/kg	11	0.72	1
Bromochloromethane	ND		ug/kg	5.4	0.38	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.48	1
1,2-Dibromoethane	ND		ug/kg	4.3	0.21	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.34	1
Bromobenzene	ND		ug/kg	5.4	0.24	1
n-Butylbenzene	ND		ug/kg	1.1	0.24	1
sec-Butylbenzene	ND		ug/kg	1.1	0.23	1
tert-Butylbenzene	ND		ug/kg	5.4	0.26	1
o-Chlorotoluene	ND		ug/kg	5.4	0.24	1
p-Chlorotoluene	ND		ug/kg	5.4	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.4	0.42	1
Hexachlorobutadiene	ND		ug/kg	5.4	0.37	1
Isopropylbenzene	ND		ug/kg	1.1	0.21	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.22	1
Naphthalene	15		ug/kg	5.4	0.15	1
Acrylonitrile	ND		ug/kg	11	0.55	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
Client ID: SB01_0-2
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.23	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.27	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.23	1
1,3,5-Trimethylbenzene	ND		ug/kg	5.4	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	5.4	0.20	1
1,4-Dioxane	ND		ug/kg	43	15.	1
p-Diethylbenzene	ND		ug/kg	4.3	4.3	1
p-Ethyltoluene	ND		ug/kg	4.3	0.25	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.3	0.17	1
Ethyl ether	ND		ug/kg	5.4	0.28	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	0.42	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 23:00
 Analyst: MV
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.0	1.3	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.30	1
Carbon tetrachloride	ND		ug/kg	0.80	0.28	1
1,2-Dichloropropane	ND		ug/kg	2.8	0.18	1
Dibromochloromethane	ND		ug/kg	0.80	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.25	1
Tetrachloroethene	ND		ug/kg	0.80	0.24	1
Chlorobenzene	ND		ug/kg	0.80	0.28	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.33	1
1,2-Dichloroethane	ND		ug/kg	0.80	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.80	0.28	1
Bromodichloromethane	ND		ug/kg	0.80	0.25	1
trans-1,3-Dichloropropene	ND		ug/kg	0.80	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.80	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.80	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.0	0.26	1
Bromoform	ND		ug/kg	3.2	0.19	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.80	0.24	1
Benzene	ND		ug/kg	0.80	0.15	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.80	0.14	1
Chloromethane	ND		ug/kg	4.0	0.35	1
Bromomethane	ND		ug/kg	1.6	0.27	1
Vinyl chloride	ND		ug/kg	1.6	0.25	1
Chloroethane	ND		ug/kg	1.6	0.25	1
1,1-Dichloroethene	ND		ug/kg	0.80	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.19	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.80	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.14	1
Methyl tert butyl ether	ND		ug/kg	1.6	0.12	1
p/m-Xylene	ND		ug/kg	1.6	0.28	1
o-Xylene	ND		ug/kg	1.6	0.27	1
Xylenes, Total	ND		ug/kg	1.6	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.80	0.27	1
1,2-Dichloroethene, Total	ND		ug/kg	0.80	0.19	1
Dibromomethane	ND		ug/kg	8.0	0.19	1
Styrene	ND		ug/kg	1.6	0.32	1
Dichlorodifluoromethane	ND		ug/kg	8.0	0.40	1
Acetone	7.3	J	ug/kg	8.0	1.8	1
Carbon disulfide	ND		ug/kg	8.0	0.88	1
2-Butanone	ND		ug/kg	8.0	0.55	1
Vinyl acetate	ND		ug/kg	8.0	0.12	1
4-Methyl-2-pentanone	ND		ug/kg	8.0	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.0	0.14	1
2-Hexanone	ND		ug/kg	8.0	0.53	1
Bromochloromethane	ND		ug/kg	4.0	0.28	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.36	1
1,2-Dibromoethane	ND		ug/kg	3.2	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.80	0.25	1
Bromobenzene	ND		ug/kg	4.0	0.18	1
n-Butylbenzene	ND		ug/kg	0.80	0.18	1
sec-Butylbenzene	ND		ug/kg	0.80	0.17	1
tert-Butylbenzene	ND		ug/kg	4.0	0.20	1
o-Chlorotoluene	ND		ug/kg	4.0	0.18	1
p-Chlorotoluene	ND		ug/kg	4.0	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	0.32	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.28	1
Isopropylbenzene	ND		ug/kg	0.80	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.80	0.16	1
Naphthalene	5.5		ug/kg	4.0	0.11	1
Acrylonitrile	ND		ug/kg	8.0	0.41	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
Client ID: SB01_3-4
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.80	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.20	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.17	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.15	1
1,4-Dioxane	ND		ug/kg	32	12.	1
p-Diethylbenzene	ND		ug/kg	3.2	3.2	1
p-Ethyltoluene	ND		ug/kg	3.2	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.2	0.12	1
Ethyl ether	ND		ug/kg	4.0	0.21	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.0	0.31	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 13:29
 Analyst: JC
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	ND		ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	1.3		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	1.3		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	20		ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.83	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	11		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.62	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
Client ID: SB01_8-9
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 13:55
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.27	1
Benzene	1.1		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	1.7		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	0.40	J	ug/kg	1.8	0.14	1
p/m-Xylene	1.3	J	ug/kg	1.8	0.32	1
o-Xylene	1.2	J	ug/kg	1.8	0.31	1
Xylenes, Total	2.5	J	ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	0.92	0.31	1
1,2-Dichloroethene, Total	ND		ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	77		ug/kg	9.2	2.1	1
Carbon disulfide	1.8	J	ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.63	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.61	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.41	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	0.27	J	ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	0.97		ug/kg	0.92	0.18	1
p-Isopropyltoluene	7.5		ug/kg	0.92	0.18	1
Naphthalene	470	E	ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
Client ID: SB02_0-2
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	0.48	J	ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	1.3	J	ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	3.0	J	ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	6.3		ug/kg	3.7	3.7	1
p-Ethyltoluene	4.6		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	0.94	J	ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 02:07
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	500	83.	1
1,1-Dichloroethane	ND		ug/kg	76	14.	1
Chloroform	ND		ug/kg	76	19.	1
Carbon tetrachloride	ND		ug/kg	50	17.	1
1,2-Dichloropropane	ND		ug/kg	180	11.	1
Dibromochloromethane	ND		ug/kg	50	8.9	1
1,1,2-Trichloroethane	ND		ug/kg	76	16.	1
Tetrachloroethene	ND		ug/kg	50	15.	1
Chlorobenzene	ND		ug/kg	50	18.	1
Trichlorofluoromethane	ND		ug/kg	250	21.	1
1,2-Dichloroethane	ND		ug/kg	50	12.	1
1,1,1-Trichloroethane	ND		ug/kg	50	18.	1
Bromodichloromethane	ND		ug/kg	50	16.	1
trans-1,3-Dichloropropene	ND		ug/kg	50	10.	1
cis-1,3-Dichloropropene	ND		ug/kg	50	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	50	10.	1
1,1-Dichloropropene	ND		ug/kg	250	16.	1
Bromoform	ND		ug/kg	200	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.	1
Benzene	ND		ug/kg	50	9.7	1
Toluene	ND		ug/kg	76	9.8	1
Ethylbenzene	ND		ug/kg	50	8.6	1
Chloromethane	ND		ug/kg	250	22.	1
Bromomethane	ND		ug/kg	100	17.	1
Vinyl chloride	ND		ug/kg	100	16.	1
Chloroethane	ND		ug/kg	100	16.	1
1,1-Dichloroethene	ND		ug/kg	50	19.	1
trans-1,2-Dichloroethene	ND		ug/kg	76	12.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04

Date Collected: 05/31/18 11:20

Client ID: SB02_0-2

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	50	15.	1
1,2-Dichlorobenzene	ND		ug/kg	250	9.2	1
1,3-Dichlorobenzene	ND		ug/kg	250	11.	1
1,4-Dichlorobenzene	ND		ug/kg	250	9.2	1
Methyl tert butyl ether	ND		ug/kg	100	7.7	1
p/m-Xylene	ND		ug/kg	100	18.	1
o-Xylene	ND		ug/kg	100	17.	1
Xylene (Total)	ND		ug/kg	100	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	50	17.	1
1,2-Dichloroethene (total)	ND		ug/kg	50	12.	1
Dibromomethane	ND		ug/kg	500	12.	1
Styrene	ND		ug/kg	100	20.	1
Dichlorodifluoromethane	ND		ug/kg	500	25.	1
Acetone	ND		ug/kg	500	120	1
Carbon disulfide	ND		ug/kg	500	55.	1
2-Butanone	ND		ug/kg	500	35.	1
Vinyl acetate	ND		ug/kg	500	7.7	1
4-Methyl-2-pentanone	ND		ug/kg	500	12.	1
1,2,3-Trichloropropane	ND		ug/kg	500	8.9	1
2-Hexanone	ND		ug/kg	500	34.	1
Bromochloromethane	ND		ug/kg	250	18.	1
2,2-Dichloropropane	ND		ug/kg	250	23.	1
1,2-Dibromoethane	ND		ug/kg	200	10.	1
1,3-Dichloropropane	ND		ug/kg	250	9.2	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.	1
Bromobenzene	ND		ug/kg	250	11.	1
n-Butylbenzene	ND		ug/kg	50	11.	1
sec-Butylbenzene	ND		ug/kg	50	11.	1
tert-Butylbenzene	ND		ug/kg	250	12.	1
o-Chlorotoluene	ND		ug/kg	250	11.	1
p-Chlorotoluene	ND		ug/kg	250	9.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.	1
Hexachlorobutadiene	ND		ug/kg	250	18.	1
Isopropylbenzene	ND		ug/kg	50	9.8	1
p-Isopropyltoluene	ND		ug/kg	50	10.	1
Naphthalene	560		ug/kg	250	7.0	1
Acrylonitrile	ND		ug/kg	500	26.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
Client ID: SB02_0-2
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	50	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	250	13.	1
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.	1
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.1	1
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.4	1
1,4-Dioxane	ND		ug/kg	2000	730	1
1,4-Diethylbenzene	ND		ug/kg	200	200	1
4-Ethyltoluene	ND		ug/kg	200	12.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.9	1
Ethyl ether	ND		ug/kg	250	13.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	81		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	94		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 23:27
 Analyst: MV
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.2	1.5	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.25	1
Chloroform	ND		ug/kg	1.4	0.34	1
Carbon tetrachloride	ND		ug/kg	0.92	0.32	1
1,2-Dichloropropane	ND		ug/kg	3.2	0.21	1
Dibromochloromethane	ND		ug/kg	0.92	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.29	1
Tetrachloroethene	ND		ug/kg	0.92	0.28	1
Chlorobenzene	ND		ug/kg	0.92	0.32	1
Trichlorofluoromethane	ND		ug/kg	4.6	0.38	1
1,2-Dichloroethane	ND		ug/kg	0.92	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.92	0.32	1
Bromodichloromethane	ND		ug/kg	0.92	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	0.92	0.19	1
cis-1,3-Dichloropropene	ND		ug/kg	0.92	0.21	1
1,3-Dichloropropene, Total	ND		ug/kg	0.92	0.19	1
1,1-Dichloropropene	ND		ug/kg	4.6	0.30	1
Bromoform	ND		ug/kg	3.7	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.92	0.28	1
Benzene	ND		ug/kg	0.92	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	ND		ug/kg	0.92	0.16	1
Chloromethane	ND		ug/kg	4.6	0.40	1
Bromomethane	ND		ug/kg	1.8	0.31	1
Vinyl chloride	ND		ug/kg	1.8	0.29	1
Chloroethane	ND		ug/kg	1.8	0.29	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.22	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.92	0.28	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.17	1
Methyl tert butyl ether	0.76	J	ug/kg	1.8	0.14	1
p/m-Xylene	ND		ug/kg	1.8	0.32	1
o-Xylene	ND		ug/kg	1.8	0.31	1
Xylenes, Total	ND		ug/kg	1.8	0.31	1
cis-1,2-Dichloroethene	0.44	J	ug/kg	0.92	0.32	1
1,2-Dichloroethene, Total	0.44	J	ug/kg	0.92	0.22	1
Dibromomethane	ND		ug/kg	9.2	0.22	1
Styrene	ND		ug/kg	1.8	0.37	1
Dichlorodifluoromethane	ND		ug/kg	9.2	0.46	1
Acetone	18		ug/kg	9.2	2.1	1
Carbon disulfide	ND		ug/kg	9.2	1.0	1
2-Butanone	ND		ug/kg	9.2	0.64	1
Vinyl acetate	ND		ug/kg	9.2	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.2	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	9.2	0.16	1
2-Hexanone	ND		ug/kg	9.2	0.62	1
Bromochloromethane	ND		ug/kg	4.6	0.33	1
2,2-Dichloropropane	ND		ug/kg	4.6	0.42	1
1,2-Dibromoethane	ND		ug/kg	3.7	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.6	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.92	0.29	1
Bromobenzene	ND		ug/kg	4.6	0.20	1
n-Butylbenzene	ND		ug/kg	0.92	0.21	1
sec-Butylbenzene	ND		ug/kg	0.92	0.20	1
tert-Butylbenzene	ND		ug/kg	4.6	0.23	1
o-Chlorotoluene	ND		ug/kg	4.6	0.20	1
p-Chlorotoluene	ND		ug/kg	4.6	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.6	0.36	1
Hexachlorobutadiene	ND		ug/kg	4.6	0.32	1
Isopropylbenzene	ND		ug/kg	0.92	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.92	0.19	1
Naphthalene	2.0	J	ug/kg	4.6	0.13	1
Acrylonitrile	ND		ug/kg	9.2	0.47	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
Client ID: SB02_4-6
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.92	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.6	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.6	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.6	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.6	0.17	1
1,4-Dioxane	ND		ug/kg	37	13.	1
p-Diethylbenzene	ND		ug/kg	3.7	3.7	1
p-Ethyltoluene	ND		ug/kg	3.7	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.7	0.14	1
Ethyl ether	ND		ug/kg	4.6	0.24	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.6	0.36	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	96		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 14:47
 Analyst: MKS
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	1.9	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.43	1
Carbon tetrachloride	ND		ug/kg	1.2	0.40	1
1,2-Dichloropropane	ND		ug/kg	4.1	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.35	1
Chlorobenzene	ND		ug/kg	1.2	0.41	1
Trichlorofluoromethane	ND		ug/kg	5.8	0.49	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.41	1
Bromodichloromethane	ND		ug/kg	1.2	0.36	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.27	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.24	1
1,1-Dichloropropene	ND		ug/kg	5.8	0.38	1
Bromoform	ND		ug/kg	4.7	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.35	1
Benzene	ND		ug/kg	1.2	0.22	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	5.8	0.51	1
Bromomethane	ND		ug/kg	2.3	0.40	1
Vinyl chloride	ND		ug/kg	2.3	0.37	1
Chloroethane	ND		ug/kg	2.3	0.37	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.28	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
1,3-Dichlorobenzene	ND		ug/kg	5.8	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	5.8	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.18	1
p/m-Xylene	ND		ug/kg	2.3	0.41	1
o-Xylene	ND		ug/kg	2.3	0.40	1
Xylenes, Total	ND		ug/kg	2.3	0.40	1
cis-1,2-Dichloroethene	0.73	J	ug/kg	1.2	0.40	1
1,2-Dichloroethene, Total	0.73	J	ug/kg	1.2	0.28	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.3	0.47	1
Dichlorodifluoromethane	ND		ug/kg	12	0.58	1
Acetone	15		ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.81	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.28	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.78	1
Bromochloromethane	ND		ug/kg	5.8	0.42	1
2,2-Dichloropropane	ND		ug/kg	5.8	0.53	1
1,2-Dibromoethane	ND		ug/kg	4.7	0.23	1
1,3-Dichloropropane	ND		ug/kg	5.8	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Bromobenzene	ND		ug/kg	5.8	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.25	1
tert-Butylbenzene	ND		ug/kg	5.8	0.29	1
o-Chlorotoluene	ND		ug/kg	5.8	0.26	1
p-Chlorotoluene	ND		ug/kg	5.8	0.21	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.8	0.46	1
Hexachlorobutadiene	ND		ug/kg	5.8	0.41	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	93		ug/kg	5.8	0.16	1
Acrylonitrile	ND		ug/kg	12	0.60	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
Client ID: SB02_6-8
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.8	0.29	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.8	0.25	1
1,3,5-Trimethylbenzene	0.24	J	ug/kg	5.8	0.19	1
1,2,4-Trimethylbenzene	0.62	J	ug/kg	5.8	0.22	1
1,4-Dioxane	ND		ug/kg	47	17.	1
p-Diethylbenzene	ND		ug/kg	4.7	4.7	1
p-Ethyltoluene	0.53	J	ug/kg	4.7	0.27	1
1,2,4,5-Tetramethylbenzene	0.31	J	ug/kg	4.7	0.18	1
Ethyl ether	ND		ug/kg	5.8	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.8	0.46	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	107		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 15:39
 Analyst: MKS
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	530	87.	1
1,1-Dichloroethane	ND		ug/kg	79	14.	1
Chloroform	ND		ug/kg	79	20.	1
Carbon tetrachloride	ND		ug/kg	53	18.	1
1,2-Dichloropropane	ND		ug/kg	180	12.	1
Dibromochloromethane	ND		ug/kg	53	9.3	1
1,1,2-Trichloroethane	ND		ug/kg	79	16.	1
Tetrachloroethene	ND		ug/kg	53	16.	1
Chlorobenzene	ND		ug/kg	53	18.	1
Trichlorofluoromethane	ND		ug/kg	260	22.	1
1,2-Dichloroethane	ND		ug/kg	53	13.	1
1,1,1-Trichloroethane	ND		ug/kg	53	18.	1
Bromodichloromethane	ND		ug/kg	53	16.	1
trans-1,3-Dichloropropene	ND		ug/kg	53	11.	1
cis-1,3-Dichloropropene	ND		ug/kg	53	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	53	11.	1
1,1-Dichloropropene	ND		ug/kg	260	17.	1
Bromoform	ND		ug/kg	210	12.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	53	16.	1
Benzene	180		ug/kg	53	10.	1
Toluene	120		ug/kg	79	10.	1
Ethylbenzene	230		ug/kg	53	9.0	1
Chloromethane	ND		ug/kg	260	23.	1
Bromomethane	ND		ug/kg	100	18.	1
Vinyl chloride	ND		ug/kg	100	17.	1
Chloroethane	ND		ug/kg	100	17.	1
1,1-Dichloroethene	ND		ug/kg	53	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	79	13.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	53	16.	1
1,2-Dichlorobenzene	ND		ug/kg	260	9.6	1
1,3-Dichlorobenzene	ND		ug/kg	260	11.	1
1,4-Dichlorobenzene	ND		ug/kg	260	9.6	1
Methyl tert butyl ether	70	J	ug/kg	100	8.1	1
p/m-Xylene	460		ug/kg	100	18.	1
o-Xylene	73	J	ug/kg	100	18.	1
Xylenes, Total	530	J	ug/kg	100	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	53	18.	1
1,2-Dichloroethene, Total	ND		ug/kg	53	13.	1
Dibromomethane	ND		ug/kg	530	13.	1
Styrene	ND		ug/kg	100	21.	1
Dichlorodifluoromethane	ND		ug/kg	530	26.	1
Acetone	ND		ug/kg	530	120	1
Carbon disulfide	ND		ug/kg	530	58.	1
2-Butanone	ND		ug/kg	530	36.	1
Vinyl acetate	ND		ug/kg	530	8.1	1
4-Methyl-2-pentanone	ND		ug/kg	530	13.	1
1,2,3-Trichloropropane	ND		ug/kg	530	9.3	1
2-Hexanone	ND		ug/kg	530	35.	1
Bromochloromethane	ND		ug/kg	260	19.	1
2,2-Dichloropropane	ND		ug/kg	260	24.	1
1,2-Dibromoethane	ND		ug/kg	210	10.	1
1,3-Dichloropropane	ND		ug/kg	260	9.6	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	53	17.	1
Bromobenzene	ND		ug/kg	260	12.	1
n-Butylbenzene	120		ug/kg	53	12.	1
sec-Butylbenzene	40	J	ug/kg	53	11.	1
tert-Butylbenzene	ND		ug/kg	260	13.	1
o-Chlorotoluene	ND		ug/kg	260	12.	1
p-Chlorotoluene	ND		ug/kg	260	9.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	260	21.	1
Hexachlorobutadiene	ND		ug/kg	260	18.	1
Isopropylbenzene	78		ug/kg	53	10.	1
p-Isopropyltoluene	26	J	ug/kg	53	11.	1
Naphthalene	1900		ug/kg	260	7.3	1
Acrylonitrile	ND		ug/kg	530	27.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
Client ID: SB03_0-1
Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	400		ug/kg	53	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	260	13.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	11.	1
1,3,5-Trimethylbenzene	42	J	ug/kg	260	8.5	1
1,2,4-Trimethylbenzene	440		ug/kg	260	9.8	1
1,4-Dioxane	ND		ug/kg	2100	760	1
p-Diethylbenzene	ND		ug/kg	210	210	1
p-Ethyltoluene	240		ug/kg	210	12.	1
1,2,4,5-Tetramethylbenzene	220		ug/kg	210	8.2	1
Ethyl ether	ND		ug/kg	260	14.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	260	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	114		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	106		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08 D
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 16:05
 Analyst: MKS
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	1200	200	2.5
1,1-Dichloroethane	ND		ug/kg	180	33.	2.5
Chloroform	ND		ug/kg	180	45.	2.5
Carbon tetrachloride	ND		ug/kg	120	42.	2.5
1,2-Dichloropropane	ND		ug/kg	430	28.	2.5
Dibromochloromethane	ND		ug/kg	120	22.	2.5
1,1,2-Trichloroethane	ND		ug/kg	180	38.	2.5
Tetrachloroethene	ND		ug/kg	120	37.	2.5
Chlorobenzene	ND		ug/kg	120	43.	2.5
Trichlorofluoromethane	ND		ug/kg	610	51.	2.5
1,2-Dichloroethane	ND		ug/kg	120	30.	2.5
1,1,1-Trichloroethane	ND		ug/kg	120	43.	2.5
Bromodichloromethane	ND		ug/kg	120	38.	2.5
trans-1,3-Dichloropropene	ND		ug/kg	120	26.	2.5
cis-1,3-Dichloropropene	ND		ug/kg	120	28.	2.5
1,3-Dichloropropene, Total	ND		ug/kg	120	26.	2.5
1,1-Dichloropropene	ND		ug/kg	610	40.	2.5
Bromoform	ND		ug/kg	490	29.	2.5
1,1,2,2-Tetrachloroethane	ND		ug/kg	120	36.	2.5
Benzene	200		ug/kg	120	24.	2.5
Toluene	ND		ug/kg	180	24.	2.5
Ethylbenzene	280		ug/kg	120	21.	2.5
Chloromethane	ND		ug/kg	610	54.	2.5
Bromomethane	ND		ug/kg	240	41.	2.5
Vinyl chloride	ND		ug/kg	240	39.	2.5
Chloroethane	ND		ug/kg	240	39.	2.5
1,1-Dichloroethene	ND		ug/kg	120	46.	2.5
trans-1,2-Dichloroethene	ND		ug/kg	180	30.	2.5

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08 D

Date Collected: 05/31/18 10:05

Client ID: SB03_3-4

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	120	37.	2.5
1,2-Dichlorobenzene	ND		ug/kg	610	22.	2.5
1,3-Dichlorobenzene	ND		ug/kg	610	27.	2.5
1,4-Dichlorobenzene	ND		ug/kg	610	22.	2.5
Methyl tert butyl ether	ND		ug/kg	240	19.	2.5
p/m-Xylene	54	J	ug/kg	240	43.	2.5
o-Xylene	ND		ug/kg	240	41.	2.5
Xylenes, Total	54	J	ug/kg	240	41.	2.5
cis-1,2-Dichloroethene	ND		ug/kg	120	42.	2.5
1,2-Dichloroethene, Total	ND		ug/kg	120	30.	2.5
Dibromomethane	ND		ug/kg	1200	29.	2.5
Styrene	ND		ug/kg	240	49.	2.5
Dichlorodifluoromethane	ND		ug/kg	1200	61.	2.5
Acetone	ND		ug/kg	1200	280	2.5
Carbon disulfide	ND		ug/kg	1200	140	2.5
2-Butanone	ND		ug/kg	1200	85.	2.5
Vinyl acetate	ND		ug/kg	1200	19.	2.5
4-Methyl-2-pentanone	ND		ug/kg	1200	30.	2.5
1,2,3-Trichloropropane	ND		ug/kg	1200	22.	2.5
2-Hexanone	ND		ug/kg	1200	82.	2.5
Bromochloromethane	ND		ug/kg	610	44.	2.5
2,2-Dichloropropane	ND		ug/kg	610	55.	2.5
1,2-Dibromoethane	ND		ug/kg	490	24.	2.5
1,3-Dichloropropane	ND		ug/kg	610	22.	2.5
1,1,1,2-Tetrachloroethane	ND		ug/kg	120	39.	2.5
Bromobenzene	ND		ug/kg	610	27.	2.5
n-Butylbenzene	3700		ug/kg	120	28.	2.5
sec-Butylbenzene	1700		ug/kg	120	27.	2.5
tert-Butylbenzene	85	J	ug/kg	610	30.	2.5
o-Chlorotoluene	ND		ug/kg	610	27.	2.5
p-Chlorotoluene	ND		ug/kg	610	22.	2.5
1,2-Dibromo-3-chloropropane	ND		ug/kg	610	49.	2.5
Hexachlorobutadiene	ND		ug/kg	610	43.	2.5
Isopropylbenzene	2600		ug/kg	120	24.	2.5
p-Isopropyltoluene	87	J	ug/kg	120	25.	2.5
Naphthalene	1300		ug/kg	610	17.	2.5
Acrylonitrile	ND		ug/kg	1200	63.	2.5

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08 D
Client ID: SB03_3-4
Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	8200		ug/kg	120	26.	2.5
1,2,3-Trichlorobenzene	ND		ug/kg	610	31.	2.5
1,2,4-Trichlorobenzene	ND		ug/kg	610	26.	2.5
1,3,5-Trimethylbenzene	54	J	ug/kg	610	20.	2.5
1,2,4-Trimethylbenzene	410	J	ug/kg	610	23.	2.5
1,4-Dioxane	ND		ug/kg	4900	1800	2.5
p-Diethylbenzene	2900		ug/kg	490	490	2.5
p-Ethyltoluene	340	J	ug/kg	490	29.	2.5
1,2,4,5-Tetramethylbenzene	8300		ug/kg	490	19.	2.5
Ethyl ether	ND		ug/kg	610	32.	2.5
trans-1,4-Dichloro-2-butene	ND		ug/kg	610	48.	2.5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	97		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 16:31
 Analyst: MKS
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	710	120	1
1,1-Dichloroethane	ND		ug/kg	110	19.	1
Chloroform	ND		ug/kg	110	26.	1
Carbon tetrachloride	ND		ug/kg	71	24.	1
1,2-Dichloropropane	ND		ug/kg	250	16.	1
Dibromochloromethane	ND		ug/kg	71	12.	1
1,1,2-Trichloroethane	ND		ug/kg	110	22.	1
Tetrachloroethene	ND		ug/kg	71	21.	1
Chlorobenzene	ND		ug/kg	71	25.	1
Trichlorofluoromethane	ND		ug/kg	360	30.	1
1,2-Dichloroethane	ND		ug/kg	71	17.	1
1,1,1-Trichloroethane	ND		ug/kg	71	25.	1
Bromodichloromethane	ND		ug/kg	71	22.	1
trans-1,3-Dichloropropene	ND		ug/kg	71	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	71	16.	1
1,3-Dichloropropene, Total	ND		ug/kg	71	15.	1
1,1-Dichloropropene	ND		ug/kg	360	23.	1
Bromoform	ND		ug/kg	280	17.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	71	21.	1
Benzene	33	J	ug/kg	71	14.	1
Toluene	ND		ug/kg	110	14.	1
Ethylbenzene	55	J	ug/kg	71	12.	1
Chloromethane	ND		ug/kg	360	31.	1
Bromomethane	ND		ug/kg	140	24.	1
Vinyl chloride	ND		ug/kg	140	22.	1
Chloroethane	ND		ug/kg	140	22.	1
1,1-Dichloroethene	ND		ug/kg	71	26.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	17.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	71	21.	1
1,2-Dichlorobenzene	ND		ug/kg	360	13.	1
1,3-Dichlorobenzene	ND		ug/kg	360	16.	1
1,4-Dichlorobenzene	ND		ug/kg	360	13.	1
Methyl tert butyl ether	ND		ug/kg	140	11.	1
p/m-Xylene	47	J	ug/kg	140	25.	1
o-Xylene	ND		ug/kg	140	24.	1
Xylenes, Total	47	J	ug/kg	140	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	71	24.	1
1,2-Dichloroethene, Total	ND		ug/kg	71	17.	1
Dibromomethane	ND		ug/kg	710	17.	1
Styrene	ND		ug/kg	140	28.	1
Dichlorodifluoromethane	ND		ug/kg	710	36.	1
Acetone	ND		ug/kg	710	160	1
Carbon disulfide	ND		ug/kg	710	78.	1
2-Butanone	ND		ug/kg	710	49.	1
Vinyl acetate	ND		ug/kg	710	11.	1
4-Methyl-2-pentanone	ND		ug/kg	710	17.	1
1,2,3-Trichloropropane	ND		ug/kg	710	12.	1
2-Hexanone	ND		ug/kg	710	47.	1
Bromochloromethane	ND		ug/kg	360	25.	1
2,2-Dichloropropane	ND		ug/kg	360	32.	1
1,2-Dibromoethane	ND		ug/kg	280	14.	1
1,3-Dichloropropane	ND		ug/kg	360	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	71	23.	1
Bromobenzene	ND		ug/kg	360	16.	1
n-Butylbenzene	510		ug/kg	71	16.	1
sec-Butylbenzene	240		ug/kg	71	15.	1
tert-Butylbenzene	ND		ug/kg	360	18.	1
o-Chlorotoluene	ND		ug/kg	360	16.	1
p-Chlorotoluene	ND		ug/kg	360	13.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	360	28.	1
Hexachlorobutadiene	ND		ug/kg	360	25.	1
Isopropylbenzene	360		ug/kg	71	14.	1
p-Isopropyltoluene	ND		ug/kg	71	14.	1
Naphthalene	420		ug/kg	360	9.8	1
Acrylonitrile	ND		ug/kg	710	36.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
Client ID: SB03_7-8
Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	1100		ug/kg	71	15.	1
1,2,3-Trichlorobenzene	ND		ug/kg	360	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	360	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	360	11.	1
1,2,4-Trimethylbenzene	80	J	ug/kg	360	13.	1
1,4-Dioxane	ND		ug/kg	2800	1000	1
p-Diethylbenzene	370		ug/kg	280	280	1
p-Ethyltoluene	58	J	ug/kg	280	17.	1
1,2,4,5-Tetramethylbenzene	1200		ug/kg	280	11.	1
Ethyl ether	ND		ug/kg	360	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	28.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	99		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 15:13
 Analyst: MKS
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.26	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.96	0.33	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.96	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.30	1
Tetrachloroethene	ND		ug/kg	0.96	0.29	1
Chlorobenzene	ND		ug/kg	0.96	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.96	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.34	1
Bromodichloromethane	ND		ug/kg	0.96	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.96	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.96	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.96	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.8	0.31	1
Bromoform	ND		ug/kg	3.8	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.96	0.28	1
Benzene	ND		ug/kg	0.96	0.18	1
Toluene	ND		ug/kg	1.4	0.19	1
Ethylbenzene	ND		ug/kg	0.96	0.16	1
Chloromethane	ND		ug/kg	4.8	0.42	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.96	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.96	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.8	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.8	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.15	1
p/m-Xylene	ND		ug/kg	1.9	0.34	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.96	0.33	1
1,2-Dichloroethene, Total	ND		ug/kg	0.96	0.23	1
Dibromomethane	ND		ug/kg	9.6	0.23	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.6	0.48	1
Acetone	2.9	J	ug/kg	9.6	2.2	1
Carbon disulfide	ND		ug/kg	9.6	1.0	1
2-Butanone	ND		ug/kg	9.6	0.66	1
Vinyl acetate	ND		ug/kg	9.6	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.6	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.6	0.17	1
2-Hexanone	ND		ug/kg	9.6	0.64	1
Bromochloromethane	ND		ug/kg	4.8	0.34	1
2,2-Dichloropropane	ND		ug/kg	4.8	0.43	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.8	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.96	0.30	1
Bromobenzene	ND		ug/kg	4.8	0.21	1
n-Butylbenzene	ND		ug/kg	0.96	0.22	1
sec-Butylbenzene	ND		ug/kg	0.96	0.21	1
tert-Butylbenzene	ND		ug/kg	4.8	0.24	1
o-Chlorotoluene	ND		ug/kg	4.8	0.21	1
p-Chlorotoluene	ND		ug/kg	4.8	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.8	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.33	1
Isopropylbenzene	ND		ug/kg	0.96	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.96	0.19	1
Naphthalene	1.8	J	ug/kg	4.8	0.13	1
Acrylonitrile	ND		ug/kg	9.6	0.49	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
Client ID: SBDUP01_053118
Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.96	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.8	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.8	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.8	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.8	0.18	1
1,4-Dioxane	ND		ug/kg	38	14.	1
p-Diethylbenzene	ND		ug/kg	3.8	3.8	1
p-Ethyltoluene	ND		ug/kg	3.8	0.22	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.15	1
Ethyl ether	ND		ug/kg	4.8	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	106		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-11
 Client ID: SBTB01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/05/18 19:03
 Analyst: NLK

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

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-11
 Client ID: SBTB01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

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

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-11
Client ID: SBTB01_053118
Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/06/18 08:43
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,10 Batch: WG1122929-12					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 08:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,10 Batch: WG1122929-12					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/06/18 08:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01,03-04,06,10 Batch: WG1122929-12					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/05/18 18:38
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1122975-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/05/18 18:38
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1122975-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/05/18 18:38
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1122975-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/l

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 06/05/18 18:38
 Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1122975-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	95		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 08:43
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07-09 Batch: WG1123151-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.
Trichloroethene	ND		ug/kg	50	15.

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/06/18 08:43
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07-09 Batch: WG1123151-5					
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylenes, Total	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene, Total	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.
o-Chlorotoluene	ND		ug/kg	250	11.

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 06/06/18 08:43
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 07-09 Batch: WG1123151-5					
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
1,4-Dioxane	ND		ug/kg	2000	720
p-Diethylbenzene	ND		ug/kg	200	200
p-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	106		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 21:12
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG1123402-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.49	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/06/18 21:12
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG1123402-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/06/18 21:12
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02,05 Batch: WG1123402-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	92		70-130

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 21:12
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123411-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	ND		ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	25	J	ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 21:12
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123411-5					
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylene (Total)	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene (total)	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 06/06/18 21:12
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123411-5					
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
Isopropyl Ether	ND		ug/kg	200	14.
tert-Butyl Alcohol	ND		ug/kg	3000	150
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Ethyl Acetate	ND		ug/kg	1000	100
Acrolein	ND		ug/kg	1200	400
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	26.
1,4-Diethylbenzene	ND		ug/kg	200	200
4-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Tetrahydrofuran	ND		ug/kg	1000	50.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Methyl cyclohexane	ND		ug/kg	200	12.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	8.9

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 06/06/18 21:12
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1123411-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	12.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	82		70-130
Toluene-d8	118		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	92		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,10 Batch: WG1122929-10 WG1122929-11								
Methylene chloride	110		104		70-130	6		30
1,1-Dichloroethane	113		108		70-130	5		30
Chloroform	120		116		70-130	3		30
Carbon tetrachloride	132	Q	122		70-130	8		30
1,2-Dichloropropane	107		105		70-130	2		30
Dibromochloromethane	124		119		70-130	4		30
1,1,2-Trichloroethane	107		104		70-130	3		30
Tetrachloroethene	123		115		70-130	7		30
Chlorobenzene	116		112		70-130	4		30
Trichlorofluoromethane	126		122		70-139	3		30
1,2-Dichloroethane	118		116		70-130	2		30
1,1,1-Trichloroethane	125		120		70-130	4		30
Bromodichloromethane	121		118		70-130	3		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
cis-1,3-Dichloropropene	116		114		70-130	2		30
1,1-Dichloropropene	115		112		70-130	3		30
Bromoform	118		119		70-130	1		30
1,1,2,2-Tetrachloroethane	111		112		70-130	1		30
Benzene	110		106		70-130	4		30
Toluene	108		103		70-130	5		30
Ethylbenzene	112		108		70-130	4		30
Chloromethane	86		81		52-130	6		30
Bromomethane	112		110		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,10 Batch: WG1122929-10 WG1122929-11								
Vinyl chloride	101		94		67-130	7		30
Chloroethane	116		109		50-151	6		30
1,1-Dichloroethene	108		104		65-135	4		30
trans-1,2-Dichloroethene	114		110		70-130	4		30
Trichloroethene	116		114		70-130	2		30
1,2-Dichlorobenzene	116		112		70-130	4		30
1,3-Dichlorobenzene	116		114		70-130	2		30
1,4-Dichlorobenzene	113		111		70-130	2		30
Methyl tert butyl ether	113		109		66-130	4		30
p/m-Xylene	111		108		70-130	3		30
o-Xylene	113		110		70-130	3		30
cis-1,2-Dichloroethene	118		115		70-130	3		30
Dibromomethane	120		114		70-130	5		30
Styrene	110		108		70-130	2		30
Dichlorodifluoromethane	91		87		30-146	4		30
Acetone	96		94		54-140	2		30
Carbon disulfide	87		83		59-130	5		30
2-Butanone	90		106		70-130	16		30
Vinyl acetate	112		112		70-130	0		30
4-Methyl-2-pentanone	102		101		70-130	1		30
1,2,3-Trichloropropane	111		114		68-130	3		30
2-Hexanone	97		100		70-130	3		30
Bromochloromethane	122		123		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,10 Batch: WG1122929-10 WG1122929-11								
2,2-Dichloropropane	118		112		70-130	5		30
1,2-Dibromoethane	118		113		70-130	4		30
1,3-Dichloropropane	114		114		69-130	0		30
1,1,1,2-Tetrachloroethane	120		120		70-130	0		30
Bromobenzene	118		114		70-130	3		30
n-Butylbenzene	113		111		70-130	2		30
sec-Butylbenzene	113		110		70-130	3		30
tert-Butylbenzene	114		110		70-130	4		30
o-Chlorotoluene	109		87		70-130	30		30
p-Chlorotoluene	112		109		70-130	3		30
1,2-Dibromo-3-chloropropane	112		110		68-130	2		30
Hexachlorobutadiene	118		115		67-130	3		30
Isopropylbenzene	115		110		70-130	4		30
p-Isopropyltoluene	114		110		70-130	4		30
Naphthalene	108		110		70-130	2		30
Acrylonitrile	108		113		70-130	5		30
n-Propylbenzene	114		108		70-130	5		30
1,2,3-Trichlorobenzene	113		114		70-130	1		30
1,2,4-Trichlorobenzene	118		115		70-130	3		30
1,3,5-Trimethylbenzene	112		109		70-130	3		30
1,2,4-Trimethylbenzene	113		111		70-130	2		30
1,4-Dioxane	101		96		65-136	5		30
p-Diethylbenzene	114		110		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01,03-04,06,10 Batch: WG1122929-10 WG1122929-11								
p-Ethyltoluene	113		109		70-130	4		30
1,2,4,5-Tetramethylbenzene	113		109		70-130	4		30
Ethyl ether	112		107		67-130	5		30
trans-1,4-Dichloro-2-butene	108		106		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		112		70-130
Toluene-d8	103		101		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	108		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1122975-3 WG1122975-4								
Methylene chloride	94		98		70-130	4		20
1,1-Dichloroethane	94		99		70-130	5		20
Chloroform	96		100		70-130	4		20
Carbon tetrachloride	93		99		63-132	6		20
1,2-Dichloropropane	96		100		70-130	4		20
Dibromochloromethane	80		83		63-130	4		20
1,1,2-Trichloroethane	97		100		70-130	3		20
Tetrachloroethene	94		99		70-130	5		20
Chlorobenzene	95		99		75-130	4		20
Trichlorofluoromethane	93		96		62-150	3		20
1,2-Dichloroethane	95		97		70-130	2		20
1,1,1-Trichloroethane	94		100		67-130	6		20
Bromodichloromethane	93		97		67-130	4		20
trans-1,3-Dichloropropene	84		88		70-130	5		20
cis-1,3-Dichloropropene	96		100		70-130	4		20
1,1-Dichloropropene	95		100		70-130	5		20
Bromoform	72		76		54-136	5		20
1,1,2,2-Tetrachloroethane	93		98		67-130	5		20
Benzene	97		100		70-130	3		20
Toluene	96		100		70-130	4		20
Ethylbenzene	96		100		70-130	4		20
Chloromethane	89		93		64-130	4		20
Bromomethane	49		66		39-139	30	Q	20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1122975-3 WG1122975-4								
Vinyl chloride	93		98		55-140	5		20
Chloroethane	97		99		55-138	2		20
1,1-Dichloroethene	92		97		61-145	5		20
trans-1,2-Dichloroethene	94		100		70-130	6		20
Trichloroethene	94		97		70-130	3		20
1,2-Dichlorobenzene	95		100		70-130	5		20
1,3-Dichlorobenzene	94		100		70-130	6		20
1,4-Dichlorobenzene	94		99		70-130	5		20
Methyl tert butyl ether	94		98		63-130	4		20
p/m-Xylene	100		105		70-130	5		20
o-Xylene	100		105		70-130	5		20
cis-1,2-Dichloroethene	95		100		70-130	5		20
Dibromomethane	94		98		70-130	4		20
1,2,3-Trichloropropane	95		90		64-130	5		20
Acrylonitrile	93		97		70-130	4		20
Styrene	100		105		70-130	5		20
Dichlorodifluoromethane	92		96		36-147	4		20
Acetone	86		89		58-148	3		20
Carbon disulfide	90		96		51-130	6		20
2-Butanone	92		96		63-138	4		20
Vinyl acetate	97		100		70-130	3		20
4-Methyl-2-pentanone	86		93		59-130	8		20
2-Hexanone	82		87		57-130	6		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1122975-3 WG1122975-4								
Bromochloromethane	98		100		70-130	2		20
2,2-Dichloropropane	100		100		63-133	0		20
1,2-Dibromoethane	94		96		70-130	2		20
1,3-Dichloropropane	96		98		70-130	2		20
1,1,1,2-Tetrachloroethane	94		97		64-130	3		20
Bromobenzene	94		98		70-130	4		20
n-Butylbenzene	100		110		53-136	10		20
sec-Butylbenzene	98		100		70-130	2		20
tert-Butylbenzene	98		100		70-130	2		20
o-Chlorotoluene	95		100		70-130	5		20
p-Chlorotoluene	95		100		70-130	5		20
1,2-Dibromo-3-chloropropane	70		76		41-144	8		20
Hexachlorobutadiene	96		110		63-130	14		20
Isopropylbenzene	98		100		70-130	2		20
p-Isopropyltoluene	100		110		70-130	10		20
Naphthalene	78		88		70-130	12		20
n-Propylbenzene	97		100		69-130	3		20
1,2,3-Trichlorobenzene	88		100		70-130	13		20
1,2,4-Trichlorobenzene	91		100		70-130	9		20
1,3,5-Trimethylbenzene	98		100		64-130	2		20
1,2,4-Trimethylbenzene	100		100		70-130	0		20
1,4-Dioxane	88		120		56-162	31	Q	20
p-Diethylbenzene	99		100		70-130	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1122975-3 WG1122975-4								
p-Ethyltoluene	99		100		70-130	1		20
1,2,4,5-Tetramethylbenzene	93		99		70-130	6		20
Ethyl ether	97		99		59-134	2		20
trans-1,4-Dichloro-2-butene	70		82		70-130	16		20

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

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07-09 Batch: WG1123151-3 WG1123151-4								
Methylene chloride	110		104		70-130	6		30
1,1-Dichloroethane	113		108		70-130	5		30
Chloroform	120		116		70-130	3		30
Carbon tetrachloride	132	Q	122		70-130	8		30
1,2-Dichloropropane	107		105		70-130	2		30
Dibromochloromethane	124		119		70-130	4		30
1,1,2-Trichloroethane	107		104		70-130	3		30
Tetrachloroethene	123		115		70-130	7		30
Chlorobenzene	116		112		70-130	4		30
Trichlorofluoromethane	126		122		70-139	3		30
1,2-Dichloroethane	118		116		70-130	2		30
1,1,1-Trichloroethane	125		120		70-130	4		30
Bromodichloromethane	121		118		70-130	3		30
trans-1,3-Dichloropropene	115		113		70-130	2		30
cis-1,3-Dichloropropene	116		114		70-130	2		30
1,1-Dichloropropene	115		112		70-130	3		30
Bromoform	118		119		70-130	1		30
1,1,2,2-Tetrachloroethane	111		112		70-130	1		30
Benzene	110		106		70-130	4		30
Toluene	108		103		70-130	5		30
Ethylbenzene	112		108		70-130	4		30
Chloromethane	86		81		52-130	6		30
Bromomethane	112		110		57-147	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07-09 Batch: WG1123151-3 WG1123151-4								
Vinyl chloride	101		94		67-130	7		30
Chloroethane	116		109		50-151	6		30
1,1-Dichloroethene	108		104		65-135	4		30
trans-1,2-Dichloroethene	114		110		70-130	4		30
Trichloroethene	116		114		70-130	2		30
1,2-Dichlorobenzene	116		112		70-130	4		30
1,3-Dichlorobenzene	116		114		70-130	2		30
1,4-Dichlorobenzene	113		111		70-130	2		30
Methyl tert butyl ether	113		109		66-130	4		30
p/m-Xylene	111		108		70-130	3		30
o-Xylene	113		110		70-130	3		30
cis-1,2-Dichloroethene	118		115		70-130	3		30
Dibromomethane	120		114		70-130	5		30
Styrene	110		108		70-130	2		30
Dichlorodifluoromethane	91		87		30-146	4		30
Acetone	96		94		54-140	2		30
Carbon disulfide	87		83		59-130	5		30
2-Butanone	90		106		70-130	16		30
Vinyl acetate	112		112		70-130	0		30
4-Methyl-2-pentanone	102		101		70-130	1		30
1,2,3-Trichloropropane	111		114		68-130	3		30
2-Hexanone	97		100		70-130	3		30
Bromochloromethane	122		123		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07-09 Batch: WG1123151-3 WG1123151-4								
2,2-Dichloropropane	118		112		70-130	5		30
1,2-Dibromoethane	118		113		70-130	4		30
1,3-Dichloropropane	114		114		69-130	0		30
1,1,1,2-Tetrachloroethane	120		120		70-130	0		30
Bromobenzene	118		114		70-130	3		30
n-Butylbenzene	113		111		70-130	2		30
sec-Butylbenzene	113		110		70-130	3		30
tert-Butylbenzene	114		110		70-130	4		30
o-Chlorotoluene	109		87		70-130	30		30
p-Chlorotoluene	112		109		70-130	3		30
1,2-Dibromo-3-chloropropane	112		110		68-130	2		30
Hexachlorobutadiene	118		115		67-130	3		30
Isopropylbenzene	115		110		70-130	4		30
p-Isopropyltoluene	114		110		70-130	4		30
Naphthalene	108		110		70-130	2		30
Acrylonitrile	108		113		70-130	5		30
n-Propylbenzene	114		108		70-130	5		30
1,2,3-Trichlorobenzene	113		114		70-130	1		30
1,2,4-Trichlorobenzene	118		115		70-130	3		30
1,3,5-Trimethylbenzene	112		109		70-130	3		30
1,2,4-Trimethylbenzene	113		111		70-130	2		30
1,4-Dioxane	101		96		65-136	5		30
p-Diethylbenzene	114		110		70-130	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 07-09 Batch: WG1123151-3 WG1123151-4								
p-Ethyltoluene	113		109		70-130	4		30
1,2,4,5-Tetramethylbenzene	113		109		70-130	4		30
Ethyl ether	112		107		67-130	5		30
trans-1,4-Dichloro-2-butene	108		106		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		112		70-130
Toluene-d8	103		100		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	108		109		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1123402-3 WG1123402-4								
Methylene chloride	96		105		70-130	9		30
1,1-Dichloroethane	88		94		70-130	7		30
Chloroform	92		93		70-130	1		30
Carbon tetrachloride	93		96		70-130	3		30
1,2-Dichloropropane	101		96		70-130	5		30
Dibromochloromethane	88		89		70-130	1		30
1,1,2-Trichloroethane	94		89		70-130	5		30
Tetrachloroethene	107		104		70-130	3		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	94		98		70-139	4		30
1,2-Dichloroethane	82		80		70-130	2		30
1,1,1-Trichloroethane	92		93		70-130	1		30
Bromodichloromethane	94		90		70-130	4		30
trans-1,3-Dichloropropene	85		82		70-130	4		30
cis-1,3-Dichloropropene	100		88		70-130	13		30
1,1-Dichloropropene	98		100		70-130	2		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	98		94		70-130	4		30
Benzene	99		98		70-130	1		30
Toluene	96		91		70-130	5		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	95		96		52-130	1		30
Bromomethane	100		97		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1123402-3 WG1123402-4								
Vinyl chloride	99		102		67-130	3		30
Chloroethane	82		84		50-151	2		30
1,1-Dichloroethene	113		118		65-135	4		30
trans-1,2-Dichloroethene	98		105		70-130	7		30
Trichloroethene	98		97		70-130	1		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	95		93		70-130	2		30
1,4-Dichlorobenzene	91		90		70-130	1		30
Methyl tert butyl ether	94		98		66-130	4		30
p/m-Xylene	96		94		70-130	2		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	102		105		70-130	3		30
Dibromomethane	93		90		70-130	3		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	73		75		30-146	3		30
Acetone	90		97		54-140	7		30
Carbon disulfide	101		108		59-130	7		30
2-Butanone	84		94		70-130	11		30
Vinyl acetate	78		79		70-130	1		30
4-Methyl-2-pentanone	100		89		70-130	12		30
1,2,3-Trichloropropane	91		88		68-130	3		30
2-Hexanone	82		78		70-130	5		30
Bromochloromethane	107		108		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1123402-3 WG1123402-4								
2,2-Dichloropropane	91		91		70-130	0		30
1,2-Dibromoethane	94		94		70-130	0		30
1,3-Dichloropropane	96		92		69-130	4		30
1,1,1,2-Tetrachloroethane	95		96		70-130	1		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	87		87		70-130	0		30
sec-Butylbenzene	91		90		70-130	1		30
tert-Butylbenzene	93		93		70-130	0		30
o-Chlorotoluene	86		85		70-130	1		30
p-Chlorotoluene	86		86		70-130	0		30
1,2-Dibromo-3-chloropropane	98		94		68-130	4		30
Hexachlorobutadiene	103		103		67-130	0		30
Isopropylbenzene	93		92		70-130	1		30
p-Isopropyltoluene	94		94		70-130	0		30
Naphthalene	108		105		70-130	3		30
Acrylonitrile	97		97		70-130	0		30
n-Propylbenzene	90		90		70-130	0		30
1,2,3-Trichlorobenzene	104		102		70-130	2		30
1,2,4-Trichlorobenzene	104		105		70-130	1		30
1,3,5-Trimethylbenzene	91		91		70-130	0		30
1,2,4-Trimethylbenzene	91		91		70-130	0		30
1,4-Dioxane	112		100		65-136	11		30
p-Diethylbenzene	95		94		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02,05 Batch: WG1123402-3 WG1123402-4								
p-Ethyltoluene	93		94		70-130	1		30
1,2,4,5-Tetramethylbenzene	95		94		70-130	1		30
Ethyl ether	92		98		67-130	6		30
trans-1,4-Dichloro-2-butene	78		73		70-130	7		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	82		81		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	95		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123411-3 WG1123411-4								
Methylene chloride	96		105		70-130	9		30
1,1-Dichloroethane	88		94		70-130	7		30
Chloroform	92		93		70-130	1		30
Carbon tetrachloride	93		96		70-130	3		30
1,2-Dichloropropane	101		96		70-130	5		30
Dibromochloromethane	88		89		70-130	1		30
2-Chloroethylvinyl ether	92		80		70-130	14		30
1,1,2-Trichloroethane	94		89		70-130	5		30
Tetrachloroethene	107		104		70-130	3		30
Chlorobenzene	93		92		70-130	1		30
Trichlorofluoromethane	94		98		70-139	4		30
1,2-Dichloroethane	82		80		70-130	2		30
1,1,1-Trichloroethane	92		93		70-130	1		30
Bromodichloromethane	94		90		70-130	4		30
trans-1,3-Dichloropropene	85		82		70-130	4		30
cis-1,3-Dichloropropene	100		88		70-130	13		30
1,1-Dichloropropene	98		100		70-130	2		30
Bromoform	90		90		70-130	0		30
1,1,2,2-Tetrachloroethane	98		94		70-130	4		30
Benzene	99		98		70-130	1		30
Toluene	96		91		70-130	5		30
Ethylbenzene	92		91		70-130	1		30
Chloromethane	95		96		52-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123411-3 WG1123411-4								
Bromomethane	100		97		57-147	3		30
Vinyl chloride	99		102		67-130	3		30
Chloroethane	82		84		50-151	2		30
1,1-Dichloroethene	113		118		65-135	4		30
trans-1,2-Dichloroethene	98		105		70-130	7		30
Trichloroethene	98		97		70-130	1		30
1,2-Dichlorobenzene	95		95		70-130	0		30
1,3-Dichlorobenzene	95		93		70-130	2		30
1,4-Dichlorobenzene	91		90		70-130	1		30
Methyl tert butyl ether	94		98		66-130	4		30
p/m-Xylene	96		94		70-130	2		30
o-Xylene	94		93		70-130	1		30
cis-1,2-Dichloroethene	102		105		70-130	3		30
Dibromomethane	93		90		70-130	3		30
Styrene	95		94		70-130	1		30
Dichlorodifluoromethane	73		75		30-146	3		30
Acetone	90		97		54-140	7		30
Carbon disulfide	101		108		59-130	7		30
2-Butanone	84		94		70-130	11		30
Vinyl acetate	78		79		70-130	1		30
4-Methyl-2-pentanone	100		89		70-130	12		30
1,2,3-Trichloropropane	91		88		68-130	3		30
2-Hexanone	82		78		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123411-3 WG1123411-4								
Bromochloromethane	107		108		70-130	1		30
2,2-Dichloropropane	91		91		70-130	0		30
1,2-Dibromoethane	94		94		70-130	0		30
1,3-Dichloropropane	96		92		69-130	4		30
1,1,1,2-Tetrachloroethane	95		96		70-130	1		30
Bromobenzene	98		98		70-130	0		30
n-Butylbenzene	87		87		70-130	0		30
sec-Butylbenzene	91		90		70-130	1		30
tert-Butylbenzene	93		93		70-130	0		30
o-Chlorotoluene	86		85		70-130	1		30
p-Chlorotoluene	86		86		70-130	0		30
1,2-Dibromo-3-chloropropane	98		94		68-130	4		30
Hexachlorobutadiene	103		103		67-130	0		30
Isopropylbenzene	93		92		70-130	1		30
p-Isopropyltoluene	94		94		70-130	0		30
Naphthalene	108		105		70-130	3		30
Acrylonitrile	97		97		70-130	0		30
Isopropyl Ether	83		88		66-130	6		30
tert-Butyl Alcohol	93		98		70-130	5		30
n-Propylbenzene	90		90		70-130	0		30
1,2,3-Trichlorobenzene	104		102		70-130	2		30
1,2,4-Trichlorobenzene	104		105		70-130	1		30
1,3,5-Trimethylbenzene	91		91		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1123411-3 WG1123411-4								
1,2,4-Trimethylbenzene	91		91		70-130	0		30
Methyl Acetate	96		101		51-146	5		30
Ethyl Acetate	91		88		70-130	3		30
Acrolein	101		114		70-130	12		30
Cyclohexane	99		100		59-142	1		30
1,4-Dioxane	112		100		65-136	11		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	112		119		50-139	6		30
1,4-Diethylbenzene	95		94		70-130	1		30
4-Ethyltoluene	93		94		70-130	1		30
1,2,4,5-Tetramethylbenzene	95		94		70-130	1		30
Tetrahydrofuran	97		106		66-130	9		30
Ethyl ether	92		98		67-130	6		30
trans-1,4-Dichloro-2-butene	78		73		70-130	7		30
Methyl cyclohexane	104		104		70-130	0		30
Ethyl-Tert-Butyl-Ether	88		94		70-130	7		30
Tertiary-Amyl Methyl Ether	98		98		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	82		81		70-130
Toluene-d8	100		98		70-130
4-Bromofluorobenzene	99		99		70-130
Dibromofluoromethane	95		98		70-130

SEMIVOLATILES

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 23:48
 Analyst: CB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	6700		ug/kg	140	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	34000	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	7700	E	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	140	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	23000	E	ug/kg	110	20.	1
Benzo(a)pyrene	17000	E	ug/kg	140	44.	1
Benzo(b)fluoranthene	23000	E	ug/kg	110	30.	1
Benzo(k)fluoranthene	4000		ug/kg	110	29.	1
Chrysene	19000	E	ug/kg	110	19.	1
Acenaphthylene	1200		ug/kg	140	28.	1
Anthracene	13000	E	ug/kg	110	35.	1
Benzo(ghi)perylene	10000	E	ug/kg	140	21.	1
Fluorene	5800		ug/kg	180	18.	1
Phenanthrene	48000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	2300		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	10000	E	ug/kg	140	25.	1
Pyrene	38000	E	ug/kg	110	18.	1
Biphenyl	1300		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	75.	1
Dibenzofuran	4000		ug/kg	180	17.	1
2-Methylnaphthalene	6700		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	68.	1
4-Nitrophenol	ND		ug/kg	250	74.	1
2,4-Dinitrophenol	ND		ug/kg	870	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	87.	1
Pentachlorophenol	ND		ug/kg	140	40.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
Client ID: SB01_0-2
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	3000		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	72		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	81		10-136
4-Terphenyl-d14	85		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01 D
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/06/18 13:54
 Analyst: PS
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	46000		ug/kg	2200	420	20
Naphthalene	8700		ug/kg	3600	440	20
Benzo(a)anthracene	25000		ug/kg	2200	410	20
Benzo(a)pyrene	16000		ug/kg	2900	890	20
Benzo(b)fluoranthene	19000		ug/kg	2200	610	20
Chrysene	25000		ug/kg	2200	380	20
Anthracene	14000		ug/kg	2200	710	20
Benzo(ghi)perylene	9800		ug/kg	2900	430	20
Phenanthrene	83000		ug/kg	2200	440	20
Indeno(1,2,3-cd)pyrene	8800		ug/kg	2900	510	20
Pyrene	57000		ug/kg	2200	360	20

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/06/18 13:28
 Analyst: PS
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	35	J	ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	33.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	49.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	180		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	530	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	51	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	64.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	35.	1
Di-n-octylphthalate	ND		ug/kg	190	63.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	84	J	ug/kg	110	21.	1
Benzo(a)pyrene	49	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	65	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	89	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	52	J	ug/kg	110	36.	1
Benzo(ghi)perylene	32	J	ug/kg	150	22.	1
Fluorene	26	J	ug/kg	190	18.	1
Phenanthrene	360		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	28	J	ug/kg	150	26.	1
Pyrene	220		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	77.	1
Dibenzofuran	19	J	ug/kg	190	18.	1
2-Methylnaphthalene	36	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	19.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	61.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	890	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	89.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	600	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	69		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	60		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 20:22
 Analyst: CB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	28	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	53	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	35	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	920	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	92.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	75		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	97		10-136
4-Terphenyl-d14	69		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 22:31
 Analyst: CB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	490		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	2000		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	1000		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04

Date Collected: 05/31/18 11:20

Client ID: SB02_0-2

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	960		ug/kg	110	21.	1
Benzo(a)pyrene	600		ug/kg	150	45.	1
Benzo(b)fluoranthene	650		ug/kg	110	31.	1
Benzo(k)fluoranthene	280		ug/kg	110	29.	1
Chrysene	1000		ug/kg	110	19.	1
Acenaphthylene	32	J	ug/kg	150	28.	1
Anthracene	760		ug/kg	110	36.	1
Benzo(ghi)perylene	380		ug/kg	150	22.	1
Fluorene	400		ug/kg	180	18.	1
Phenanthrene	3900		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	82	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	360		ug/kg	150	26.	1
Pyrene	2500		ug/kg	110	18.	1
Biphenyl	100	J	ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	220		ug/kg	180	17.	1
2-Methylnaphthalene	490		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	33	J	ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	95		10-136
4-Terphenyl-d14	76		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 22:05
 Analyst: CB
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	620		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	450		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
Client ID: SB02_4-6
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	280		ug/kg	120	22.	1
Benzo(a)pyrene	180		ug/kg	160	48.	1
Benzo(b)fluoranthene	220		ug/kg	120	33.	1
Benzo(k)fluoranthene	72	J	ug/kg	120	31.	1
Chrysene	280		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	180		ug/kg	120	38.	1
Benzo(ghi)perylene	100	J	ug/kg	160	23.	1
Fluorene	100	J	ug/kg	200	19.	1
Phenanthrene	1100		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	92	J	ug/kg	160	27.	1
Pyrene	780		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	450	45.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	70	J	ug/kg	200	18.	1
2-Methylnaphthalene	180	J	ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	57	J	ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	58		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 19:56
 Analyst: CB
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	ND		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	ND		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	39.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	ND		ug/kg	200	19.	1
2-Methylnaphthalene	ND		ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	92.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	290	31.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	ND		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	88		30-120
2,4,6-Tribromophenol	94		10-136
4-Terphenyl-d14	65		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 22:57
 Analyst: CB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	430		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	21.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	18.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	37.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	1700		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	1300		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	810		ug/kg	110	21.	1
Benzo(a)pyrene	530		ug/kg	150	46.	1
Benzo(b)fluoranthene	580		ug/kg	110	32.	1
Benzo(k)fluoranthene	220		ug/kg	110	30.	1
Chrysene	840		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	770		ug/kg	110	36.	1
Benzo(ghi)perylene	280		ug/kg	150	22.	1
Fluorene	540		ug/kg	190	18.	1
Phenanthrene	3400		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	62	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	260		ug/kg	150	26.	1
Pyrene	2300		ug/kg	110	19.	1
Biphenyl	140	J	ug/kg	430	43.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	220		ug/kg	190	18.	1
2-Methylnaphthalene	1000		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	400	70.	1
4-Nitrophenol	ND		ug/kg	260	76.	1
2,4-Dinitrophenol	ND		ug/kg	900	87.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	57.	1
Carbazole	150	J	ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	101		10-136
4-Terphenyl-d14	83		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 20:48
 Analyst: CB
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	330		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Fluoranthene	53	J	ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	1300		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08

Date Collected: 05/31/18 10:05

Client ID: SB03_3-4

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	22	J	ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	190		ug/kg	110	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	860		ug/kg	180	17.	1
Phenanthrene	1500		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	260		ug/kg	110	18.	1
Biphenyl	370	J	ug/kg	400	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	33.	1
4-Nitroaniline	ND		ug/kg	180	73.	1
Dibenzofuran	280		ug/kg	180	17.	1
2-Methylnaphthalene	7600	E	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	570	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	ND		ug/kg	180	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	92		10-136
4-Terphenyl-d14	67		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08 D
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/06/18 23:04
 Analyst: RC
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2-Methylnaphthalene	8000		ug/kg	420	43.	2

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/05/18 21:14
 Analyst: CB
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	76	J	ug/kg	160	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	37.	1
1,3-Dichlorobenzene	ND		ug/kg	200	35.	1
1,4-Dichlorobenzene	ND		ug/kg	200	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	54.	1
2,4-Dinitrotoluene	ND		ug/kg	200	41.	1
2,6-Dinitrotoluene	ND		ug/kg	200	35.	1
Fluoranthene	170		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	20.	1
Hexachlorobutadiene	ND		ug/kg	200	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	180	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	130	J	ug/kg	200	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	71.	1
Butyl benzyl phthalate	ND		ug/kg	200	52.	1
Di-n-butylphthalate	ND		ug/kg	200	39.	1
Di-n-octylphthalate	ND		ug/kg	200	70.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	19.	1
Dimethyl phthalate	ND		ug/kg	200	43.	1
Benzo(a)anthracene	82	J	ug/kg	120	23.	1
Benzo(a)pyrene	50	J	ug/kg	160	50.	1
Benzo(b)fluoranthene	60	J	ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	84	J	ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	32.	1
Anthracene	68	J	ug/kg	120	40.	1
Benzo(ghi)perylene	27	J	ug/kg	160	24.	1
Fluorene	150	J	ug/kg	200	20.	1
Phenanthrene	520		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	240		ug/kg	120	20.	1
Biphenyl	ND		ug/kg	470	48.	1
4-Chloroaniline	ND		ug/kg	200	37.	1
2-Nitroaniline	ND		ug/kg	200	40.	1
3-Nitroaniline	ND		ug/kg	200	39.	1
4-Nitroaniline	ND		ug/kg	200	85.	1
Dibenzofuran	58	J	ug/kg	200	19.	1
2-Methylnaphthalene	1300		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	ND		ug/kg	200	68.	1
2-Nitrophenol	ND		ug/kg	440	77.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	980	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	530	98.	1
Pentachlorophenol	ND		ug/kg	160	45.	1
Phenol	ND		ug/kg	200	31.	1
2-Methylphenol	ND		ug/kg	200	32.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	300	32.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	39.	1
Benzoic Acid	ND		ug/kg	660	210	1
Benzyl Alcohol	ND		ug/kg	200	63.	1
Carbazole	ND		ug/kg	200	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	48		10-136
4-Terphenyl-d14	59		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/06/18 00:14
 Analyst: CB
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	4200		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	24000	E	ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	160	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	2900		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	63.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	18000	E	ug/kg	110	20.	1
Benzo(a)pyrene	12000	E	ug/kg	150	44.	1
Benzo(b)fluoranthene	16000	E	ug/kg	110	31.	1
Benzo(k)fluoranthene	4400		ug/kg	110	29.	1
Chrysene	16000	E	ug/kg	110	19.	1
Acenaphthylene	770		ug/kg	150	28.	1
Anthracene	8100	E	ug/kg	110	36.	1
Benzo(ghi)perylene	7600	E	ug/kg	150	21.	1
Fluorene	3000		ug/kg	180	18.	1
Phenanthrene	36000	E	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	1800		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	8000	E	ug/kg	150	25.	1
Pyrene	28000	E	ug/kg	110	18.	1
Biphenyl	1200		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	2600		ug/kg	180	17.	1
2-Methylnaphthalene	3600		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	390	69.	1
4-Nitrophenol	ND		ug/kg	260	74.	1
2,4-Dinitrophenol	ND		ug/kg	880	85.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	590	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	1900		ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	68		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	56		18-120

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10 D
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/06/18 14:19
 Analyst: PS
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 19:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	40000		ug/kg	2200	420	20
Benzo(a)anthracene	21000		ug/kg	2200	410	20
Benzo(a)pyrene	13000		ug/kg	2900	890	20
Benzo(b)fluoranthene	17000		ug/kg	2200	620	20
Chrysene	21000		ug/kg	2200	380	20
Anthracene	8600		ug/kg	2200	710	20
Benzo(ghi)perylene	8800		ug/kg	2900	430	20
Phenanthrene	67000		ug/kg	2200	440	20
Indeno(1,2,3-cd)pyrene	7900		ug/kg	2900	510	20
Pyrene	50000		ug/kg	2200	360	20

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/04/18 13:51
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/18 12:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1121873-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/04/18 13:51
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/18 12:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1121873-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	31.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	37.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/04/18 13:51
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 06/02/18 12:48

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1121873-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	49.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

Total TIC Compounds	328	J	ug/kg
Unknown Pyrrolidinone	162	J	ug/kg
Aldol Condensates	166	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	91		10-136
4-Terphenyl-d14	83		18-120



Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1121873-2 WG1121873-3								
Acenaphthene	77		80		31-137	4		50
1,2,4-Trichlorobenzene	71		75		38-107	5		50
Hexachlorobenzene	81		83		40-140	2		50
Bis(2-chloroethyl)ether	73		78		40-140	7		50
2-Chloronaphthalene	76		80		40-140	5		50
1,2-Dichlorobenzene	68		70		40-140	3		50
1,3-Dichlorobenzene	66		68		40-140	3		50
1,4-Dichlorobenzene	67		69		28-104	3		50
3,3'-Dichlorobenzidine	60		61		40-140	2		50
2,4-Dinitrotoluene	90		92		40-132	2		50
2,6-Dinitrotoluene	96		102		40-140	6		50
Fluoranthene	84		86		40-140	2		50
4-Chlorophenyl phenyl ether	78		80		40-140	3		50
4-Bromophenyl phenyl ether	85		86		40-140	1		50
Bis(2-chloroisopropyl)ether	74		78		40-140	5		50
Bis(2-chloroethoxy)methane	74		80		40-117	8		50
Hexachlorobutadiene	73		75		40-140	3		50
Hexachlorocyclopentadiene	73		76		40-140	4		50
Hexachloroethane	69		71		40-140	3		50
Isophorone	75		80		40-140	6		50
Naphthalene	72		75		40-140	4		50
Nitrobenzene	78		83		40-140	6		50
NDPA/DPA	82		84		36-157	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1121873-2 WG1121873-3								
n-Nitrosodi-n-propylamine	75		79		32-121	5		50
Bis(2-ethylhexyl)phthalate	88		90		40-140	2		50
Butyl benzyl phthalate	94		94		40-140	0		50
Di-n-butylphthalate	85		87		40-140	2		50
Di-n-octylphthalate	91		93		40-140	2		50
Diethyl phthalate	83		85		40-140	2		50
Dimethyl phthalate	81		84		40-140	4		50
Benzo(a)anthracene	80		82		40-140	2		50
Benzo(a)pyrene	86		87		40-140	1		50
Benzo(b)fluoranthene	86		87		40-140	1		50
Benzo(k)fluoranthene	80		83		40-140	4		50
Chrysene	79		81		40-140	3		50
Acenaphthylene	80		84		40-140	5		50
Anthracene	82		83		40-140	1		50
Benzo(ghi)perylene	81		81		40-140	0		50
Fluorene	81		83		40-140	2		50
Phenanthrene	80		82		40-140	2		50
Dibenzo(a,h)anthracene	80		80		40-140	0		50
Indeno(1,2,3-cd)pyrene	83		83		40-140	0		50
Pyrene	83		84		35-142	1		50
Biphenyl	80		83		54-104	4		50
4-Chloroaniline	70		71		40-140	1		50
2-Nitroaniline	96		102		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1121873-2 WG1121873-3								
3-Nitroaniline	78		77		26-129	1		50
4-Nitroaniline	93		94		41-125	1		50
Dibenzofuran	77		79		40-140	3		50
2-Methylnaphthalene	77		80		40-140	4		50
1,2,4,5-Tetrachlorobenzene	80		83		40-117	4		50
Acetophenone	76		81		14-144	6		50
2,4,6-Trichlorophenol	87		91		30-130	4		50
p-Chloro-m-cresol	84		89		26-103	6		50
2-Chlorophenol	75		81		25-102	8		50
2,4-Dichlorophenol	78		86		30-130	10		50
2,4-Dimethylphenol	80		87		30-130	8		50
2-Nitrophenol	95		102		30-130	7		50
4-Nitrophenol	106		106		11-114	0		50
2,4-Dinitrophenol	88		90		4-130	2		50
4,6-Dinitro-o-cresol	109		112		10-130	3		50
Pentachlorophenol	71		72		17-109	1		50
Phenol	72		77		26-90	7		50
2-Methylphenol	76		82		30-130.	8		50
3-Methylphenol/4-Methylphenol	82		90		30-130	9		50
2,4,5-Trichlorophenol	88		93		30-130	6		50
Benzoic Acid	47		44		10-110	7		50
Benzyl Alcohol	79		85		40-140	7		50
Carbazole	82		83		54-128	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1121873-2 WG1121873-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	76		81		25-120
Phenol-d6	77		83		10-120
Nitrobenzene-d5	80		84		23-120
2-Fluorobiphenyl	78		82		30-120
2,4,6-Tribromophenol	95		96		10-136
4-Terphenyl-d14	83		85		18-120

PCBS

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 12:43
 Analyst: WR
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 08:45
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.9	4.07	1	A
Aroclor 1221	ND		ug/kg	35.9	5.46	1	A
Aroclor 1232	ND		ug/kg	35.9	3.53	1	A
Aroclor 1242	ND		ug/kg	35.9	4.39	1	A
Aroclor 1248	ND		ug/kg	35.9	4.03	1	A
Aroclor 1254	ND		ug/kg	35.9	2.93	1	A
Aroclor 1260	ND		ug/kg	35.9	3.75	1	A
Aroclor 1262	ND		ug/kg	35.9	2.95	1	A
Aroclor 1268	ND		ug/kg	35.9	2.54	1	A
PCBs, Total	ND		ug/kg	35.9	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	91		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
Client ID: SB01_3-4
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/07/18 14:14
Analyst: WR
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 06/04/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	4.17	1	A
Aroclor 1221	ND		ug/kg	36.8	5.60	1	A
Aroclor 1232	ND		ug/kg	36.8	3.62	1	A
Aroclor 1242	ND		ug/kg	36.8	4.50	1	A
Aroclor 1248	ND		ug/kg	36.8	4.13	1	A
Aroclor 1254	ND		ug/kg	36.8	3.00	1	A
Aroclor 1260	ND		ug/kg	36.8	3.84	1	A
Aroclor 1262	ND		ug/kg	36.8	3.02	1	A
Aroclor 1268	ND		ug/kg	36.8	2.60	1	A
PCBs, Total	ND		ug/kg	36.8	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
Client ID: SB01_8-9
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/07/18 14:26
Analyst: WR
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 06/04/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.1	4.09	1	A
Aroclor 1221	ND		ug/kg	36.1	5.49	1	A
Aroclor 1232	ND		ug/kg	36.1	3.55	1	A
Aroclor 1242	ND		ug/kg	36.1	4.42	1	A
Aroclor 1248	ND		ug/kg	36.1	4.05	1	A
Aroclor 1254	ND		ug/kg	36.1	2.94	1	A
Aroclor 1260	ND		ug/kg	36.1	3.77	1	A
Aroclor 1262	ND		ug/kg	36.1	2.97	1	A
Aroclor 1268	ND		ug/kg	36.1	2.56	1	A
PCBs, Total	ND		ug/kg	36.1	2.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 14:39
 Analyst: WR
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 17:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.5	4.03	1	A
Aroclor 1221	ND		ug/kg	35.5	5.40	1	A
Aroclor 1232	ND		ug/kg	35.5	3.49	1	A
Aroclor 1242	ND		ug/kg	35.5	4.35	1	A
Aroclor 1248	ND		ug/kg	35.5	3.98	1	A
Aroclor 1254	ND		ug/kg	35.5	2.90	1	A
Aroclor 1260	ND		ug/kg	35.5	3.71	1	A
Aroclor 1262	ND		ug/kg	35.5	2.92	1	A
Aroclor 1268	ND		ug/kg	35.5	2.51	1	A
PCBs, Total	ND		ug/kg	35.5	2.51	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 14:51
 Analyst: WR
 Percent Solids: 83%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 17:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	39.9	4.53	1	A
Aroclor 1221	ND		ug/kg	39.9	6.08	1	A
Aroclor 1232	ND		ug/kg	39.9	3.93	1	A
Aroclor 1242	ND		ug/kg	39.9	4.89	1	A
Aroclor 1248	ND		ug/kg	39.9	4.48	1	A
Aroclor 1254	ND		ug/kg	39.9	3.26	1	A
Aroclor 1260	ND		ug/kg	39.9	4.17	1	A
Aroclor 1262	ND		ug/kg	39.9	3.28	1	A
Aroclor 1268	ND		ug/kg	39.9	2.83	1	A
PCBs, Total	ND		ug/kg	39.9	2.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
Client ID: SB02_6-8
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/07/18 15:04
Analyst: WR
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 06/04/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.8	4.29	1	A
Aroclor 1221	ND		ug/kg	37.8	5.75	1	A
Aroclor 1232	ND		ug/kg	37.8	3.72	1	A
Aroclor 1242	ND		ug/kg	37.8	4.63	1	A
Aroclor 1248	ND		ug/kg	37.8	4.24	1	A
Aroclor 1254	ND		ug/kg	37.8	3.08	1	A
Aroclor 1260	ND		ug/kg	37.8	3.95	1	A
Aroclor 1262	ND		ug/kg	37.8	3.11	1	A
Aroclor 1268	ND		ug/kg	37.8	2.68	1	A
PCBs, Total	ND		ug/kg	37.8	2.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	44		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 15:16
 Analyst: WR
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 17:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.4	4.13	1	A
Aroclor 1221	ND		ug/kg	36.4	5.55	1	A
Aroclor 1232	ND		ug/kg	36.4	3.59	1	A
Aroclor 1242	ND		ug/kg	36.4	4.46	1	A
Aroclor 1248	ND		ug/kg	36.4	4.09	1	A
Aroclor 1254	ND		ug/kg	36.4	2.97	1	A
Aroclor 1260	ND		ug/kg	36.4	3.81	1	A
Aroclor 1262	ND		ug/kg	36.4	3.00	1	A
Aroclor 1268	ND		ug/kg	36.4	2.58	1	A
PCBs, Total	ND		ug/kg	36.4	2.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	102		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 16:27
 Analyst: WR
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 17:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.88	1	A
Aroclor 1221	ND		ug/kg	34.2	5.21	1	A
Aroclor 1232	ND		ug/kg	34.2	3.37	1	A
Aroclor 1242	ND		ug/kg	34.2	4.19	1	A
Aroclor 1248	ND		ug/kg	34.2	3.84	1	A
Aroclor 1254	ND		ug/kg	34.2	2.79	1	A
Aroclor 1260	ND		ug/kg	34.2	3.57	1	A
Aroclor 1262	ND		ug/kg	34.2	2.81	1	A
Aroclor 1268	ND		ug/kg	34.2	2.42	1	A
PCBs, Total	ND		ug/kg	34.2	2.42	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 16:40
 Analyst: WR
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 17:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	41.2	4.67	1	A
Aroclor 1221	ND		ug/kg	41.2	6.27	1	A
Aroclor 1232	ND		ug/kg	41.2	4.05	1	A
Aroclor 1242	ND		ug/kg	41.2	5.04	1	A
Aroclor 1248	ND		ug/kg	41.2	4.62	1	A
Aroclor 1254	ND		ug/kg	41.2	3.36	1	A
Aroclor 1260	ND		ug/kg	41.2	4.30	1	A
Aroclor 1262	ND		ug/kg	41.2	3.39	1	A
Aroclor 1268	ND		ug/kg	41.2	2.92	1	A
PCBs, Total	ND		ug/kg	41.2	2.92	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 16:53
 Analyst: WR
 Percent Solids: 90%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 17:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/04/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.9	4.18	1	A
Aroclor 1221	ND		ug/kg	36.9	5.61	1	A
Aroclor 1232	ND		ug/kg	36.9	3.63	1	A
Aroclor 1242	ND		ug/kg	36.9	4.52	1	A
Aroclor 1248	ND		ug/kg	36.9	4.14	1	A
Aroclor 1254	ND		ug/kg	36.9	3.01	1	A
Aroclor 1260	ND		ug/kg	36.9	3.85	1	A
Aroclor 1262	ND		ug/kg	36.9	3.03	1	A
Aroclor 1268	ND		ug/kg	36.9	2.61	1	A
PCBs, Total	ND		ug/kg	36.9	2.61	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	41		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	39		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 06/07/18 15:50
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/02/18 17:31
Cleanup Method: EPA 3665A
Cleanup Date: 06/04/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02-10 Batch: WG1121914-1						
Aroclor 1016	ND		ug/kg	32.8	3.72	A
Aroclor 1221	ND		ug/kg	32.8	4.99	A
Aroclor 1232	ND		ug/kg	32.8	3.23	A
Aroclor 1242	ND		ug/kg	32.8	4.01	A
Aroclor 1248	ND		ug/kg	32.8	3.68	A
Aroclor 1254	3.12	J	ug/kg	32.8	2.68	A
Aroclor 1260	ND		ug/kg	32.8	3.42	A
Aroclor 1262	ND		ug/kg	32.8	2.70	A
Aroclor 1268	ND		ug/kg	32.8	2.32	A
PCBs, Total	3.12	J	ug/kg	32.8	2.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	48		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
 Analytical Date: 06/04/18 02:17
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 06/03/18 14:26
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/03/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1122005-1						
Aroclor 1016	ND		ug/kg	31.3	3.55	A
Aroclor 1221	ND		ug/kg	31.3	4.76	A
Aroclor 1232	ND		ug/kg	31.3	3.08	A
Aroclor 1242	ND		ug/kg	31.3	3.83	A
Aroclor 1248	ND		ug/kg	31.3	3.51	A
Aroclor 1254	ND		ug/kg	31.3	2.55	A
Aroclor 1260	ND		ug/kg	31.3	3.27	A
Aroclor 1262	ND		ug/kg	31.3	2.57	A
Aroclor 1268	ND		ug/kg	31.3	2.22	A
PCBs, Total	ND		ug/kg	31.3	2.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	86		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02-10 Batch: WG1121914-2 WG1121914-3									
Aroclor 1016	65		71		40-140	9		50	A
Aroclor 1260	60		65		40-140	8		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		64		30-150	A
Decachlorobiphenyl	51		56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		66		30-150	B
Decachlorobiphenyl	52		58		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1122005-2 WG1122005-3									
Aroclor 1016	80		76		40-140	5		50	A
Aroclor 1260	84		79		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		83		30-150	A
Decachlorobiphenyl	75		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		82		30-150	B
Decachlorobiphenyl	79		73		30-150	B

PESTICIDES

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/06/18 00:33
 Analyst: KEG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.71	0.334	1	A
Lindane	ND		ug/kg	0.711	0.318	1	A
Alpha-BHC	ND		ug/kg	0.711	0.202	1	A
Beta-BHC	ND		ug/kg	1.71	0.647	1	A
Heptachlor	ND		ug/kg	0.853	0.382	1	A
Aldrin	ND		ug/kg	1.71	0.601	1	A
Heptachlor epoxide	ND		ug/kg	3.20	0.960	1	A
Endrin	ND		ug/kg	0.711	0.292	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.747	1	A
Endrin ketone	ND		ug/kg	1.71	0.439	1	A
Dieldrin	ND		ug/kg	1.07	0.533	1	A
4,4'-DDE	ND		ug/kg	1.71	0.395	1	A
4,4'-DDD	ND		ug/kg	1.71	0.609	1	A
4,4'-DDT	ND		ug/kg	3.20	1.37	1	A
Endosulfan I	ND		ug/kg	1.71	0.403	1	A
Endosulfan II	63.9	PI	ug/kg	1.71	0.570	1	A
Endosulfan sulfate	ND		ug/kg	0.711	0.338	1	A
Methoxychlor	ND		ug/kg	3.20	0.996	1	A
Toxaphene	ND		ug/kg	32.0	8.96	1	A
cis-Chlordane	ND		ug/kg	2.13	0.594	1	A
trans-Chlordane	ND		ug/kg	2.13	0.563	1	A
Chlordane	ND		ug/kg	13.9	5.65	1	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	202	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	287	Q	30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/05/18 15:11
 Analyst: SL
 Percent Solids: 91%
 Methylation Date: 06/04/18 22:04

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	124		30-150	A
DCAA	89		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
Client ID: SB01_3-4
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/07/18 12:49
Analyst: KEG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 18:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.79	0.350	1	A
Lindane	ND		ug/kg	0.745	0.333	1	A
Alpha-BHC	ND		ug/kg	0.745	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.678	1	A
Heptachlor	ND		ug/kg	0.894	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.629	1	A
Heptachlor epoxide	ND		ug/kg	3.35	1.00	1	A
Endrin	ND		ug/kg	0.745	0.305	1	A
Endrin aldehyde	ND		ug/kg	2.23	0.782	1	A
Endrin ketone	ND		ug/kg	1.79	0.460	1	A
Dieldrin	ND		ug/kg	1.12	0.558	1	A
4,4'-DDE	ND		ug/kg	1.79	0.413	1	A
4,4'-DDD	ND		ug/kg	1.79	0.638	1	A
4,4'-DDT	ND		ug/kg	3.35	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.422	1	A
Endosulfan II	1.94		ug/kg	1.79	0.597	1	A
Endosulfan sulfate	ND		ug/kg	0.745	0.354	1	A
Methoxychlor	ND		ug/kg	3.35	1.04	1	A
Toxaphene	ND		ug/kg	33.5	9.38	1	A
cis-Chlordane	ND		ug/kg	2.23	0.623	1	A
trans-Chlordane	ND		ug/kg	2.23	0.590	1	A
Chlordane	ND		ug/kg	14.5	5.92	1	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	68		30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/04/18 23:02
 Analyst: SL
 Percent Solids: 88%
 Methylation Date: 06/02/18 21:03

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.81	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	4.99	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	95		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
Client ID: SB01_8-9
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/07/18 13:02
Analyst: KEG
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 18:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.80	0.352	1	A
Lindane	ND		ug/kg	0.748	0.334	1	A
Alpha-BHC	ND		ug/kg	0.748	0.212	1	A
Beta-BHC	ND		ug/kg	1.80	0.681	1	A
Heptachlor	ND		ug/kg	0.898	0.402	1	A
Aldrin	ND		ug/kg	1.80	0.632	1	A
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	A
Endrin	0.354	J	ug/kg	0.748	0.307	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.786	1	A
Endrin ketone	ND		ug/kg	1.80	0.462	1	A
Dieldrin	ND		ug/kg	1.12	0.561	1	A
4,4'-DDE	ND		ug/kg	1.80	0.415	1	A
4,4'-DDD	ND		ug/kg	1.80	0.640	1	A
4,4'-DDT	ND		ug/kg	3.37	1.44	1	A
Endosulfan I	ND		ug/kg	1.80	0.424	1	A
Endosulfan II	ND		ug/kg	1.80	0.600	1	A
Endosulfan sulfate	ND		ug/kg	0.748	0.356	1	A
Methoxychlor	ND		ug/kg	3.37	1.05	1	A
Toxaphene	ND		ug/kg	33.7	9.43	1	A
cis-Chlordane	ND		ug/kg	2.24	0.626	1	A
trans-Chlordane	ND		ug/kg	2.24	0.592	1	A
Chlordane	ND		ug/kg	14.6	5.95	1	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/05/18 15:30
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 06/04/18 22:04

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.81	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	117		30-150	A
DCAA	96		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/04/18 22:43
 Analyst: SL
 Percent Solids: 91%
 Methylation Date: 06/02/18 21:03

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.59	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	119		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04 D
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 13:44
 Analyst: KEG
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	17.4	3.40	10	A
Lindane	ND		ug/kg	7.23	3.23	10	A
Alpha-BHC	ND		ug/kg	7.23	2.05	10	A
Beta-BHC	ND		ug/kg	17.4	6.58	10	A
Heptachlor	ND		ug/kg	8.68	3.89	10	A
Aldrin	ND		ug/kg	17.4	6.11	10	A
Heptachlor epoxide	ND		ug/kg	32.5	9.76	10	A
Endrin	12.0	P	ug/kg	7.23	2.96	10	A
Endrin aldehyde	ND		ug/kg	21.7	7.59	10	A
Endrin ketone	ND		ug/kg	17.4	4.47	10	A
Dieldrin	ND		ug/kg	10.8	5.42	10	A
4,4'-DDE	ND		ug/kg	17.4	4.01	10	A
4,4'-DDD	ND		ug/kg	17.4	6.19	10	A
4,4'-DDT	ND		ug/kg	32.5	14.0	10	A
Endosulfan I	ND		ug/kg	17.4	4.10	10	A
Endosulfan II	ND		ug/kg	17.4	5.80	10	A
Endosulfan sulfate	ND		ug/kg	7.23	3.44	10	A
Methoxychlor	ND		ug/kg	32.5	10.1	10	A
Toxaphene	ND		ug/kg	325	91.1	10	A
cis-Chlordane	ND		ug/kg	21.7	6.05	10	A
trans-Chlordane	ND		ug/kg	21.7	5.73	10	A
Chlordane	ND		ug/kg	141	57.5	10	A

Project Name: 538-542 WEST 29TH ST.**Lab Number:** L1820045**Project Number:** 170515401**Report Date:** 06/07/18**SAMPLE RESULTS**

Lab ID: L1820045-04 D

Date Collected: 05/31/18 11:20

Client ID: SB02_0-2

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	111		30-150	B
2,4,5,6-Tetrachloro-m-xylene	117		30-150	A
Decachlorobiphenyl	121		30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
Client ID: SB02_4-6
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/07/18 13:14
Analyst: KEG
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 18:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.81	0.355	1	A
Lindane	ND		ug/kg	0.754	0.337	1	A
Alpha-BHC	ND		ug/kg	0.754	0.214	1	A
Beta-BHC	ND		ug/kg	1.81	0.687	1	A
Heptachlor	ND		ug/kg	0.905	0.406	1	A
Aldrin	ND		ug/kg	1.81	0.638	1	A
Heptachlor epoxide	ND		ug/kg	3.40	1.02	1	A
Endrin	1.31		ug/kg	0.754	0.309	1	A
Endrin aldehyde	ND		ug/kg	2.26	0.792	1	A
Endrin ketone	ND		ug/kg	1.81	0.466	1	A
Dieldrin	ND		ug/kg	1.13	0.566	1	A
4,4'-DDE	ND		ug/kg	1.81	0.419	1	A
4,4'-DDD	ND		ug/kg	1.81	0.646	1	A
4,4'-DDT	ND		ug/kg	3.40	1.46	1	A
Endosulfan I	ND		ug/kg	1.81	0.428	1	A
Endosulfan II	1.59	J	ug/kg	1.81	0.605	1	B
Endosulfan sulfate	ND		ug/kg	0.754	0.359	1	A
Methoxychlor	ND		ug/kg	3.40	1.06	1	A
Toxaphene	ND		ug/kg	34.0	9.51	1	A
cis-Chlordane	ND		ug/kg	2.26	0.631	1	A
trans-Chlordane	ND		ug/kg	2.26	0.598	1	A
Chlordane	ND		ug/kg	14.7	6.00	1	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/05/18 15:50
 Analyst: SL
 Percent Solids: 83%
 Methylation Date: 06/04/18 22:04

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.19	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.31	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	129		30-150	A
DCAA	94		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 13:27
 Analyst: KEG
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.700	1	A
Heptachlor	ND		ug/kg	0.924	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	ND		ug/kg	1.85	0.427	1	A
4,4'-DDD	ND		ug/kg	1.85	0.659	1	A
4,4'-DDT	ND		ug/kg	3.46	1.48	1	A
Endosulfan I	ND		ug/kg	1.85	0.436	1	A
Endosulfan II	ND		ug/kg	1.85	0.617	1	A
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	ND		ug/kg	2.31	0.644	1	A
trans-Chlordane	ND		ug/kg	2.31	0.610	1	A
Chlordane	ND		ug/kg	15.0	6.12	1	A

Project Name: 538-542 WEST 29TH ST.**Lab Number:** L1820045**Project Number:** 170515401**Report Date:** 06/07/18**SAMPLE RESULTS**

Lab ID: L1820045-06

Date Collected: 05/31/18 11:35

Client ID: SB02_6-8

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	57		30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/05/18 16:10
 Analyst: SL
 Percent Solids: 84%
 Methylation Date: 06/04/18 22:04

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	198	12.4	1	A
2,4,5-T	ND		ug/kg	198	6.12	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.26	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	92		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/04/18 22:24
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 06/02/18 21:03

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.9	1	A
2,4,5-T	ND		ug/kg	188	5.84	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	125		30-150	A
DCAA	121		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07 D
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 13:57
 Analyst: KEG
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	35.3	6.91	20	A
Lindane	ND		ug/kg	14.7	6.57	20	A
Alpha-BHC	ND		ug/kg	14.7	4.18	20	A
Beta-BHC	ND		ug/kg	35.3	13.4	20	A
Heptachlor	ND		ug/kg	17.6	7.91	20	A
Aldrin	ND		ug/kg	35.3	12.4	20	A
Heptachlor epoxide	ND		ug/kg	66.2	19.8	20	A
Endrin	ND		ug/kg	14.7	6.03	20	A
Endrin aldehyde	ND		ug/kg	44.1	15.4	20	A
Endrin ketone	ND		ug/kg	35.3	9.09	20	A
Dieldrin	ND		ug/kg	22.0	11.0	20	A
4,4'-DDE	ND		ug/kg	35.3	8.16	20	A
4,4'-DDD	ND		ug/kg	35.3	12.6	20	A
4,4'-DDT	ND		ug/kg	66.2	28.4	20	A
Endosulfan I	ND		ug/kg	35.3	8.34	20	A
Endosulfan II	ND		ug/kg	35.3	11.8	20	A
Endosulfan sulfate	ND		ug/kg	14.7	7.00	20	A
Methoxychlor	ND		ug/kg	66.2	20.6	20	A
Toxaphene	ND		ug/kg	662	185.	20	A
cis-Chlordane	ND		ug/kg	44.1	12.3	20	A
trans-Chlordane	ND		ug/kg	44.1	11.6	20	A
Chlordane	ND		ug/kg	287	117.	20	A

Project Name: 538-542 WEST 29TH ST.**Lab Number:** L1820045**Project Number:** 170515401**Report Date:** 06/07/18**SAMPLE RESULTS**

Lab ID: L1820045-07 D

Date Collected: 05/31/18 09:58

Client ID: SB03_0-1

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	B
Decachlorobiphenyl	0	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	0	Q	30-150	A
Decachlorobiphenyl	0	Q	30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/05/18 16:30
 Analyst: SL
 Percent Solids: 93%
 Methylation Date: 06/04/18 22:04

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	175	11.0	1	A
2,4,5-T	ND		ug/kg	175	5.44	1	A
2,4,5-TP (Silvex)	ND		ug/kg	175	4.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	120		30-150	A
DCAA	99		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08 D
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 14:10
 Analyst: KEG
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	17.2	3.36	10	A
Lindane	ND		ug/kg	7.15	3.20	10	A
Alpha-BHC	ND		ug/kg	7.15	2.03	10	A
Beta-BHC	ND		ug/kg	17.2	6.51	10	A
Heptachlor	ND		ug/kg	8.58	3.85	10	A
Aldrin	ND		ug/kg	17.2	6.04	10	A
Heptachlor epoxide	ND		ug/kg	32.2	9.65	10	A
Endrin	ND		ug/kg	7.15	2.93	10	A
Endrin aldehyde	ND		ug/kg	21.4	7.51	10	A
Endrin ketone	ND		ug/kg	17.2	4.42	10	A
Dieldrin	ND		ug/kg	10.7	5.36	10	A
4,4'-DDE	ND		ug/kg	17.2	3.97	10	A
4,4'-DDD	ND		ug/kg	17.2	6.12	10	A
4,4'-DDT	ND		ug/kg	32.2	13.8	10	A
Endosulfan I	ND		ug/kg	17.2	4.05	10	A
Endosulfan II	ND		ug/kg	17.2	5.73	10	A
Endosulfan sulfate	ND		ug/kg	7.15	3.40	10	A
Methoxychlor	ND		ug/kg	32.2	10.0	10	A
Toxaphene	ND		ug/kg	322	90.1	10	A
cis-Chlordane	ND		ug/kg	21.4	5.98	10	A
trans-Chlordane	ND		ug/kg	21.4	5.66	10	A
Chlordane	ND		ug/kg	139	56.8	10	A

Project Name: 538-542 WEST 29TH ST.**Lab Number:** L1820045**Project Number:** 170515401**Report Date:** 06/07/18**SAMPLE RESULTS**

Lab ID: L1820045-08 D

Date Collected: 05/31/18 10:05

Client ID: SB03_3-4

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	172	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	141		30-150	A
Decachlorobiphenyl	180	Q	30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/06/18 02:15
 Analyst: KEG
 Percent Solids: 79%

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.97	0.386	1	A
Lindane	ND		ug/kg	0.820	0.367	1	A
Alpha-BHC	ND		ug/kg	0.820	0.233	1	A
Beta-BHC	ND		ug/kg	1.97	0.746	1	A
Heptachlor	ND		ug/kg	0.984	0.441	1	A
Aldrin	ND		ug/kg	1.97	0.693	1	A
Heptachlor epoxide	ND		ug/kg	3.69	1.11	1	A
Endrin	ND		ug/kg	0.820	0.336	1	A
Endrin aldehyde	ND		ug/kg	2.46	0.861	1	A
Endrin ketone	ND		ug/kg	1.97	0.507	1	A
Dieldrin	ND		ug/kg	1.23	0.615	1	A
4,4'-DDE	ND		ug/kg	1.97	0.455	1	A
4,4'-DDD	ND		ug/kg	1.97	0.702	1	A
4,4'-DDT	ND		ug/kg	3.69	1.58	1	A
Endosulfan I	ND		ug/kg	1.97	0.465	1	A
Endosulfan II	ND		ug/kg	1.97	0.658	1	A
Endosulfan sulfate	ND		ug/kg	0.820	0.390	1	A
Methoxychlor	ND		ug/kg	3.69	1.15	1	A
Toxaphene	ND		ug/kg	36.9	10.3	1	A
cis-Chlordane	ND		ug/kg	2.46	0.686	1	A
trans-Chlordane	ND		ug/kg	2.46	0.650	1	A
Chlordane	ND		ug/kg	16.0	6.52	1	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	76		30-150	B
2,4,5,6-Tetrachloro-m-xylene	124		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/05/18 17:09
 Analyst: SL
 Percent Solids: 79%
 Methylation Date: 06/04/18 22:04

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	207	13.0	1	A
2,4,5-T	ND		ug/kg	207	6.41	1	A
2,4,5-TP (Silvex)	ND		ug/kg	207	5.50	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	90		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
Client ID: SBDUP01_053118
Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/06/18 02:28
Analyst: KEG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 06/02/18 18:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.726	0.325	1	A
Alpha-BHC	ND		ug/kg	0.726	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.661	1	A
Heptachlor	ND		ug/kg	0.871	0.391	1	A
Aldrin	ND		ug/kg	1.74	0.614	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.980	1	A
Endrin	ND		ug/kg	0.726	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.449	1	A
Dieldrin	ND		ug/kg	1.09	0.545	1	A
4,4'-DDE	ND		ug/kg	1.74	0.403	1	A
4,4'-DDD	ND		ug/kg	1.74	0.622	1	A
4,4'-DDT	ND		ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	77.6	PI	ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.726	0.346	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.15	1	A
cis-Chlordane	ND		ug/kg	2.18	0.607	1	A
trans-Chlordane	ND		ug/kg	2.18	0.575	1	A
Chlordane	ND		ug/kg	14.2	5.77	1	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	266	Q	30-150	B
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	406	Q	30-150	A

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/04/18 23:40
 Analyst: SL
 Percent Solids: 90%
 Methylation Date: 06/02/18 21:03

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	182	11.4	1	A
2,4,5-T	ND		ug/kg	182	5.63	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	133		30-150	A
DCAA	119		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 06/04/18 21:09
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 06/01/18 21:00

Methylation Date: 06/02/18 21:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1121697-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	114		30-150	A
DCAA	106		30-150	B

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/05/18 23:54
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/02/18 18:12
Cleanup Method: EPA 3620B
Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1121917-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.641	0.286	A
Alpha-BHC	ND		ug/kg	0.641	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.583	A
Heptachlor	ND		ug/kg	0.769	0.345	A
Aldrin	ND		ug/kg	1.54	0.541	A
Heptachlor epoxide	ND		ug/kg	2.88	0.865	A
Endrin	ND		ug/kg	0.641	0.263	A
Endrin aldehyde	ND		ug/kg	1.92	0.673	A
Endrin ketone	ND		ug/kg	1.54	0.396	A
Dieldrin	ND		ug/kg	0.961	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.356	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	2.88	1.24	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.514	A
Endosulfan sulfate	ND		ug/kg	0.641	0.305	A
Methoxychlor	ND		ug/kg	2.88	0.897	A
Toxaphene	ND		ug/kg	28.8	8.07	A
cis-Chlordane	ND		ug/kg	1.92	0.536	A
trans-Chlordane	ND		ug/kg	1.92	0.507	A
Chlordane	ND		ug/kg	12.5	5.09	A

Project Name: 538-542 WEST 29TH ST.**Lab Number:** L1820045**Project Number:** 170515401**Report Date:** 06/07/18**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8081B
 Analytical Date: 06/05/18 23:54
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 06/02/18 18:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/04/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-10 Batch: WG1121917-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	60		30-150	B
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	58		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1121697-2 WG1121697-3									
2,4-D	179	Q	163	Q	30-150	9		30	A
2,4,5-T	121		121		30-150	0		30	A
2,4,5-TP (Silvex)	138		142		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	116		117		30-150	A
DCAA	104		116		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1121917-2 WG1121917-3									
Delta-BHC	82		78		30-150	5		30	A
Lindane	81		75		30-150	8		30	A
Alpha-BHC	86		81		30-150	6		30	A
Beta-BHC	80		72		30-150	11		30	A
Heptachlor	79		71		30-150	11		30	A
Aldrin	82		76		30-150	8		30	A
Heptachlor epoxide	77		71		30-150	8		30	A
Endrin	79		72		30-150	9		30	A
Endrin aldehyde	63		59		30-150	7		30	A
Endrin ketone	69		66		30-150	4		30	A
Dieldrin	86		79		30-150	8		30	A
4,4'-DDE	81		74		30-150	9		30	A
4,4'-DDD	80		73		30-150	9		30	A
4,4'-DDT	74		68		30-150	8		30	A
Endosulfan I	78		72		30-150	8		30	A
Endosulfan II	75		70		30-150	7		30	A
Endosulfan sulfate	59		56		30-150	5		30	A
Methoxychlor	64		59		30-150	8		30	A
cis-Chlordane	66		61		30-150	8		30	A
trans-Chlordane	57		55		30-150	4		30	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-10 Batch: WG1121917-2 WG1121917-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	61		58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		62		30-150	A
Decachlorobiphenyl	61		57		30-150	A

METALS

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01
 Client ID: SB01_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:12
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5240		mg/kg	8.65	2.33	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Antimony, Total	0.700	J	mg/kg	4.32	0.329	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Arsenic, Total	1.92		mg/kg	0.865	0.180	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Barium, Total	75.1		mg/kg	0.865	0.150	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Beryllium, Total	0.363	J	mg/kg	0.432	0.029	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Cadmium, Total	0.233	J	mg/kg	0.865	0.085	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Calcium, Total	28700		mg/kg	8.65	3.03	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Chromium, Total	10.2		mg/kg	0.865	0.083	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Cobalt, Total	8.84		mg/kg	1.73	0.144	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Copper, Total	29.2		mg/kg	0.865	0.223	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Iron, Total	7720		mg/kg	4.32	0.781	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Lead, Total	178		mg/kg	4.32	0.232	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Magnesium, Total	1960		mg/kg	8.65	1.33	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Manganese, Total	306		mg/kg	0.865	0.137	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Mercury, Total	0.096		mg/kg	0.070	0.015	1	06/02/18 08:00	06/04/18 15:26	EPA 7471B	1,7471B	KA
Nickel, Total	16.8		mg/kg	2.16	0.209	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Potassium, Total	1140		mg/kg	216	12.4	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Selenium, Total	0.778	J	mg/kg	1.73	0.223	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.865	0.245	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Sodium, Total	240		mg/kg	173	2.72	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.73	0.272	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Vanadium, Total	16.5		mg/kg	0.865	0.176	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
Zinc, Total	38.1		mg/kg	4.32	0.253	2	06/05/18 21:35	06/06/18 18:12	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.88	0.88	1		06/06/18 18:12	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
 Client ID: SB01_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6940		mg/kg	8.97	2.42	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.49	0.341	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Arsenic, Total	0.790	J	mg/kg	0.897	0.187	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Barium, Total	60.0		mg/kg	0.897	0.156	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Beryllium, Total	0.574		mg/kg	0.449	0.030	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Cadmium, Total	0.314	J	mg/kg	0.897	0.088	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Calcium, Total	1690		mg/kg	8.97	3.14	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Chromium, Total	19.5		mg/kg	0.897	0.086	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Cobalt, Total	6.20		mg/kg	1.79	0.149	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Copper, Total	10.9		mg/kg	0.897	0.232	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Iron, Total	15700		mg/kg	4.49	0.810	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Lead, Total	8.52		mg/kg	4.49	0.240	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Magnesium, Total	2800		mg/kg	8.97	1.38	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Manganese, Total	239		mg/kg	0.897	0.143	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.071	0.015	1	06/02/18 08:00	06/04/18 15:32	EPA 7471B	1,7471B	KA
Nickel, Total	14.3		mg/kg	2.24	0.217	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Potassium, Total	2560		mg/kg	224	12.9	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Selenium, Total	0.897	J	mg/kg	1.79	0.232	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.897	0.254	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Sodium, Total	162	J	mg/kg	179	2.83	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.79	0.283	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Vanadium, Total	22.0		mg/kg	0.897	0.182	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
Zinc, Total	22.2		mg/kg	4.49	0.263	2	06/05/18 21:35	06/06/18 18:17	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20		mg/kg	0.91	0.91	1		06/06/18 18:17	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03
 Client ID: SB01_8-9
 Sample Location: MANHATTAN

Date Collected: 05/31/18 12:29
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3140		mg/kg	9.13	2.46	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.57	0.347	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Arsenic, Total	0.758	J	mg/kg	0.913	0.190	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Barium, Total	25.7		mg/kg	0.913	0.159	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Beryllium, Total	0.210	J	mg/kg	0.457	0.030	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Cadmium, Total	0.155	J	mg/kg	0.913	0.090	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Calcium, Total	1680		mg/kg	9.13	3.20	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Chromium, Total	8.39		mg/kg	0.913	0.088	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Cobalt, Total	3.42		mg/kg	1.83	0.152	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Copper, Total	9.97		mg/kg	0.913	0.236	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Iron, Total	7180		mg/kg	4.57	0.825	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Lead, Total	3.32	J	mg/kg	4.57	0.245	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Magnesium, Total	1830		mg/kg	9.13	1.41	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Manganese, Total	252		mg/kg	0.913	0.145	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.072	0.015	1	06/02/18 08:00	06/04/18 15:33	EPA 7471B	1,7471B	KA
Nickel, Total	7.76		mg/kg	2.28	0.221	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Potassium, Total	675		mg/kg	228	13.2	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Selenium, Total	0.237	J	mg/kg	1.83	0.236	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.913	0.258	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Sodium, Total	170	J	mg/kg	183	2.88	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.83	0.288	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Vanadium, Total	11.3		mg/kg	0.913	0.185	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
Zinc, Total	11.3		mg/kg	4.57	0.268	2	06/05/18 21:35	06/06/18 18:21	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.9	J	mg/kg	0.92	0.92	1		06/06/18 18:21	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04
 Client ID: SB02_0-2
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:20
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7420		mg/kg	8.64	2.33	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Antimony, Total	0.415	J	mg/kg	4.32	0.328	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Arsenic, Total	1.92		mg/kg	0.864	0.180	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Barium, Total	112		mg/kg	0.864	0.150	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Beryllium, Total	0.380	J	mg/kg	0.432	0.029	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Cadmium, Total	0.182	J	mg/kg	0.864	0.085	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Calcium, Total	35200		mg/kg	8.64	3.02	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Chromium, Total	11.8		mg/kg	0.864	0.083	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Cobalt, Total	5.06		mg/kg	1.73	0.143	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Copper, Total	25.3		mg/kg	0.864	0.223	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Iron, Total	8450		mg/kg	4.32	0.780	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Lead, Total	147		mg/kg	4.32	0.232	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Magnesium, Total	3960		mg/kg	8.64	1.33	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Manganese, Total	252		mg/kg	0.864	0.137	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Mercury, Total	0.096		mg/kg	0.070	0.015	1	06/02/18 08:00	06/04/18 15:35	EPA 7471B	1,7471B	KA
Nickel, Total	10.4		mg/kg	2.16	0.209	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Potassium, Total	1350		mg/kg	216	12.4	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Selenium, Total	0.432	J	mg/kg	1.73	0.223	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.864	0.245	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Sodium, Total	473		mg/kg	173	2.72	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.73	0.272	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Vanadium, Total	18.5		mg/kg	0.864	0.175	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
Zinc, Total	35.0		mg/kg	4.32	0.253	2	06/05/18 21:35	06/06/18 18:26	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.88	0.88	1		06/06/18 18:26	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
 Client ID: SB02_4-6
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5670		mg/kg	9.26	2.50	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.63	0.352	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Arsenic, Total	1.67		mg/kg	0.926	0.193	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Barium, Total	30.3		mg/kg	0.926	0.161	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Beryllium, Total	0.232	J	mg/kg	0.463	0.031	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Cadmium, Total	0.176	J	mg/kg	0.926	0.091	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Calcium, Total	7200		mg/kg	9.26	3.24	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Chromium, Total	9.31		mg/kg	0.926	0.089	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Cobalt, Total	4.42		mg/kg	1.85	0.154	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Copper, Total	7.21		mg/kg	0.926	0.239	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Iron, Total	9170		mg/kg	4.63	0.836	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Lead, Total	6.68		mg/kg	4.63	0.248	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Magnesium, Total	1890		mg/kg	9.26	1.43	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Manganese, Total	176		mg/kg	0.926	0.147	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.076	0.016	1	06/02/18 08:00	06/04/18 15:37	EPA 7471B	1,7471B	KA
Nickel, Total	9.10		mg/kg	2.32	0.224	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Potassium, Total	630		mg/kg	232	13.3	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Selenium, Total	0.685	J	mg/kg	1.85	0.239	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.926	0.262	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Sodium, Total	172	J	mg/kg	185	2.92	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.85	0.292	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Vanadium, Total	12.0		mg/kg	0.926	0.188	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
Zinc, Total	16.1		mg/kg	4.63	0.271	2	06/05/18 21:35	06/06/18 18:30	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	8.8	J	mg/kg	0.96	0.96	1		06/06/18 18:30	NA	107,-	



Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06
 Client ID: SB02_6-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 11:35
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	7470		mg/kg	9.05	2.44	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.53	0.344	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Arsenic, Total	2.74		mg/kg	0.905	0.188	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Barium, Total	44.6		mg/kg	0.905	0.158	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Beryllium, Total	0.317	J	mg/kg	0.453	0.030	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Cadmium, Total	0.281	J	mg/kg	0.905	0.089	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Calcium, Total	1410		mg/kg	9.05	3.17	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Chromium, Total	17.3		mg/kg	0.905	0.087	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Cobalt, Total	5.66		mg/kg	1.81	0.150	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Copper, Total	10.2		mg/kg	0.905	0.234	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Iron, Total	14200		mg/kg	4.53	0.818	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Lead, Total	5.89		mg/kg	4.53	0.243	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Magnesium, Total	2330		mg/kg	9.05	1.39	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Manganese, Total	260		mg/kg	0.905	0.144	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.075	0.016	1	06/02/18 08:00	06/04/18 15:39	EPA 7471B	1,7471B	KA
Nickel, Total	11.3		mg/kg	2.26	0.219	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Potassium, Total	653		mg/kg	226	13.0	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Selenium, Total	0.534	J	mg/kg	1.81	0.234	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.905	0.256	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Sodium, Total	137	J	mg/kg	181	2.85	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.81	0.285	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Vanadium, Total	20.4		mg/kg	0.905	0.184	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
Zinc, Total	21.8		mg/kg	4.53	0.265	2	06/05/18 21:35	06/06/18 18:35	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	17	J	mg/kg	0.96	0.96	1		06/06/18 18:35	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07
 Client ID: SB03_0-1
 Sample Location: MANHATTAN

Date Collected: 05/31/18 09:58
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5810		mg/kg	9.00	2.43	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.50	0.342	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Arsenic, Total	1.61		mg/kg	0.900	0.187	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Barium, Total	31.1		mg/kg	0.900	0.156	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Beryllium, Total	0.324	J	mg/kg	0.450	0.030	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Cadmium, Total	0.270	J	mg/kg	0.900	0.088	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Calcium, Total	3140		mg/kg	9.00	3.15	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Chromium, Total	13.7		mg/kg	0.900	0.086	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Cobalt, Total	4.68		mg/kg	1.80	0.149	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Copper, Total	16.9		mg/kg	0.900	0.232	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Iron, Total	9750		mg/kg	4.50	0.812	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Lead, Total	14.3		mg/kg	4.50	0.241	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Magnesium, Total	2070		mg/kg	9.00	1.38	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Manganese, Total	143		mg/kg	0.900	0.143	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Mercury, Total	0.092		mg/kg	0.073	0.016	1	06/02/18 08:00	06/04/18 15:41	EPA 7471B	1,7471B	KA
Nickel, Total	11.4		mg/kg	2.25	0.218	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Potassium, Total	892		mg/kg	225	13.0	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Selenium, Total	0.576	J	mg/kg	1.80	0.232	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.900	0.255	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Sodium, Total	198		mg/kg	180	2.83	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.80	0.283	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Vanadium, Total	17.5		mg/kg	0.900	0.183	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
Zinc, Total	36.2		mg/kg	4.50	0.264	2	06/05/18 21:35	06/06/18 18:39	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.92	0.92	1		06/06/18 18:39	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08
 Client ID: SB03_3-4
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:05
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4200		mg/kg	8.21	2.22	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.10	0.312	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Arsenic, Total	0.698	J	mg/kg	0.821	0.171	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Barium, Total	99.7		mg/kg	0.821	0.143	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Beryllium, Total	0.238	J	mg/kg	0.410	0.027	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Cadmium, Total	0.156	J	mg/kg	0.821	0.080	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Calcium, Total	1480		mg/kg	8.21	2.87	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Chromium, Total	11.2		mg/kg	0.821	0.079	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Cobalt, Total	3.82		mg/kg	1.64	0.136	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Copper, Total	13.1		mg/kg	0.821	0.212	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Iron, Total	7480		mg/kg	4.10	0.741	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Lead, Total	4.00	J	mg/kg	4.10	0.220	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Magnesium, Total	1930		mg/kg	8.21	1.26	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Manganese, Total	85.5		mg/kg	0.821	0.130	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.068	0.014	1	06/02/18 08:00	06/04/18 15:43	EPA 7471B	1,7471B	KA
Nickel, Total	8.95		mg/kg	2.05	0.199	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Potassium, Total	994		mg/kg	205	11.8	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Selenium, Total	0.460	J	mg/kg	1.64	0.212	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.821	0.232	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Sodium, Total	142	J	mg/kg	164	2.58	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.64	0.258	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Vanadium, Total	14.2		mg/kg	0.821	0.167	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
Zinc, Total	12.1		mg/kg	4.10	0.240	2	06/05/18 21:35	06/06/18 18:44	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11		mg/kg	0.86	0.87	1		06/06/18 18:44	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09
 Client ID: SB03_7-8
 Sample Location: MANHATTAN

Date Collected: 05/31/18 10:17
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3090		mg/kg	10.1	2.73	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	5.06	0.384	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Arsenic, Total	0.415	J	mg/kg	1.01	0.210	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Barium, Total	33.1		mg/kg	1.01	0.176	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Beryllium, Total	0.223	J	mg/kg	0.506	0.033	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Cadmium, Total	0.162	J	mg/kg	1.01	0.099	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Calcium, Total	3600		mg/kg	10.1	3.54	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Chromium, Total	9.90		mg/kg	1.01	0.097	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Cobalt, Total	3.09		mg/kg	2.02	0.168	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Copper, Total	10.1		mg/kg	1.01	0.261	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Iron, Total	7160		mg/kg	5.06	0.914	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Lead, Total	4.35	J	mg/kg	5.06	0.271	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Magnesium, Total	1770		mg/kg	10.1	1.56	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Manganese, Total	228		mg/kg	1.01	0.161	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.080	0.017	1	06/02/18 08:00	06/04/18 15:45	EPA 7471B	1,7471B	KA
Nickel, Total	7.44		mg/kg	2.53	0.245	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Potassium, Total	727		mg/kg	253	14.6	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Selenium, Total	0.567	J	mg/kg	2.02	0.261	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	1.01	0.286	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Sodium, Total	89.9	J	mg/kg	202	3.19	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	2.02	0.319	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Vanadium, Total	12.5		mg/kg	1.01	0.205	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
Zinc, Total	10.6		mg/kg	5.06	0.296	2	06/05/18 21:35	06/06/18 19:02	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.9		mg/kg	1.0	1.0	1		06/06/18 19:02	NA	107,-	



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10
 Client ID: SBDUP01_053118
 Sample Location: MANHATTAN

Date Collected: 05/31/18 00:00
 Date Received: 05/31/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3740		mg/kg	8.83	2.38	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.42	0.336	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Arsenic, Total	1.64		mg/kg	0.883	0.184	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Barium, Total	43.9		mg/kg	0.883	0.154	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Beryllium, Total	0.185	J	mg/kg	0.442	0.029	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Cadmium, Total	0.247	J	mg/kg	0.883	0.087	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Calcium, Total	31700		mg/kg	8.83	3.09	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Chromium, Total	7.45		mg/kg	0.883	0.085	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Cobalt, Total	3.21		mg/kg	1.77	0.147	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Copper, Total	34.0		mg/kg	0.883	0.228	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Iron, Total	5710		mg/kg	4.42	0.798	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Lead, Total	33.4		mg/kg	4.42	0.237	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Magnesium, Total	8450		mg/kg	8.83	1.36	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Manganese, Total	178		mg/kg	0.883	0.140	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Mercury, Total	0.072		mg/kg	0.070	0.015	1	06/02/18 08:00	06/04/18 15:46	EPA 7471B	1,7471B	KA
Nickel, Total	7.26		mg/kg	2.21	0.214	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Potassium, Total	783		mg/kg	221	12.7	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Selenium, Total	0.601	J	mg/kg	1.77	0.228	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.883	0.250	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Sodium, Total	163	J	mg/kg	177	2.78	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.77	0.278	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Vanadium, Total	10.5		mg/kg	0.883	0.179	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
Zinc, Total	31.0		mg/kg	4.42	0.259	2	06/05/18 21:35	06/06/18 19:06	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.4		mg/kg	0.89	0.89	1		06/06/18 19:06	NA	107,-	



Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1121784-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	06/02/18 08:00	06/04/18 14:56	1,7471B	KA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst	
Total Metals - Mansfield Lab for sample(s): 01-10 Batch: WG1122742-1										
Aluminum, Total	ND	mg/kg	4.00	1.08	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Antimony, Total	ND	mg/kg	2.00	0.152	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Arsenic, Total	ND	mg/kg	0.400	0.083	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Barium, Total	ND	mg/kg	0.400	0.070	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Beryllium, Total	ND	mg/kg	0.200	0.013	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Cadmium, Total	ND	mg/kg	0.400	0.039	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Calcium, Total	ND	mg/kg	4.00	1.40	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Chromium, Total	ND	mg/kg	0.400	0.038	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Cobalt, Total	ND	mg/kg	0.800	0.066	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Copper, Total	ND	mg/kg	0.400	0.103	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Iron, Total	0.384	J	mg/kg	2.00	0.361	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB
Lead, Total	ND	mg/kg	2.00	0.107	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Magnesium, Total	ND	mg/kg	4.00	0.616	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Manganese, Total	ND	mg/kg	0.400	0.064	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Nickel, Total	ND	mg/kg	1.00	0.097	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Potassium, Total	ND	mg/kg	100	5.76	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Selenium, Total	0.160	J	mg/kg	0.800	0.103	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB
Silver, Total	ND	mg/kg	0.400	0.113	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Sodium, Total	ND	mg/kg	80.0	1.26	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Thallium, Total	ND	mg/kg	0.800	0.126	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Vanadium, Total	ND	mg/kg	0.400	0.081	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	
Zinc, Total	ND	mg/kg	2.00	0.117	1	06/05/18 21:35	06/06/18 17:14	1,6010C	AB	

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1121784-2 SRM Lot Number: D098-540								
Mercury, Total	105		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1122742-2 SRM Lot Number: D098-540					
Aluminum, Total	81	-	47-153	-	
Antimony, Total	137	-	6-194	-	
Arsenic, Total	96	-	83-117	-	
Barium, Total	95	-	82-118	-	
Beryllium, Total	94	-	83-117	-	
Cadmium, Total	91	-	82-117	-	
Calcium, Total	92	-	81-118	-	
Chromium, Total	96	-	83-119	-	
Cobalt, Total	93	-	84-116	-	
Copper, Total	95	-	84-116	-	
Iron, Total	103	-	60-140	-	
Lead, Total	93	-	82-117	-	
Magnesium, Total	92	-	76-124	-	
Manganese, Total	93	-	82-118	-	
Nickel, Total	92	-	82-117	-	
Potassium, Total	90	-	69-131	-	
Selenium, Total	96	-	78-121	-	
Silver, Total	99	-	80-120	-	
Sodium, Total	92	-	74-126	-	
Thallium, Total	94	-	80-119	-	
Vanadium, Total	97	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1122742-2 SRM Lot Number: D098-540					
Zinc, Total	93	-	81-119	-	

Matrix Spike Analysis
Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1121784-3 QC Sample: L1820295-01 Client ID: MS Sample												
Mercury, Total	0.032J	0.152	0.213	140	Q	-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1122742-3 WG1122742-4 QC Sample: L1820281-01 Client ID: MS Sample									
Aluminum, Total	1850	170	2020	100	2230	225	Q 75-125	10	20
Antimony, Total	ND	42.5	39.2	92	38.2	91	75-125	3	20
Arsenic, Total	0.484J	10.2	11.4	112	10.7	106	75-125	6	20
Barium, Total	11.7	170	174	96	173	96	75-125	1	20
Beryllium, Total	0.087J	4.25	4.07	96	4.00	95	75-125	2	20
Cadmium, Total	0.087J	4.33	4.37	101	4.30	100	75-125	2	20
Calcium, Total	112.	850	1010	106	989	104	75-125	2	20
Chromium, Total	3.46	17	24.3	123	21.2	105	75-125	14	20
Cobalt, Total	1.90	42.5	42.0	94	41.4	94	75-125	1	20
Copper, Total	4.29	21.2	24.2	94	24.2	94	75-125	0	20
Iron, Total	4240	85	4830	694	Q 5810	1860	Q 75-125	18	20
Lead, Total	1.11J	43.3	44.0	102	43.2	100	75-125	2	20
Magnesium, Total	561.	850	1440	103	1480	109	75-125	3	20
Manganese, Total	84.8	42.5	145	142	Q 136	121	75-125	6	20
Nickel, Total	8.33	42.5	47.9	93	49.4	97	75-125	3	20
Potassium, Total	304.	850	1100	94	1170	103	75-125	6	20
Selenium, Total	0.363J	10.2	10.2	100	10.5	104	75-125	3	20
Silver, Total	ND	25.5	25.2	99	25.0	99	75-125	1	20
Sodium, Total	14.8J	850	872	103	859	102	75-125	2	20
Thallium, Total	ND	10.2	9.66	95	9.42	93	75-125	3	20
Vanadium, Total	5.13	42.5	47.7	100	46.6	98	75-125	2	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1122742-3 WG1122742-4 QC Sample: L1820281-01 Client ID: MS Sample									
Zinc, Total	5.68	42.5	48.1	100	47.4	99	75-125	1	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1121784-4 QC Sample: L1820295-01 Client ID: DUP Sample						
Mercury, Total	0.032J	0.034J	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-01

Date Collected: 05/31/18 12:12

Client ID: SB01_0-2

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.2		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/05/18 07:40	06/05/18 12:21	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.877	0.175	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-02
Client ID: SB01_3-4
Sample Location: MANHATTAN

Date Collected: 05/31/18 12:22
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.1		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 07:40	06/05/18 12:22	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.908	0.182	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-03

Date Collected: 05/31/18 12:29

Client ID: SB01_8-9

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.9		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 07:40	06/05/18 12:23	1,9010C/9012B	LH
Chromium, Hexavalent	0.472	J	mg/kg	0.920	0.184	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-04

Date Collected: 05/31/18 11:20

Client ID: SB02_0-2

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	06/05/18 07:40	06/05/18 12:24	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.883	0.177	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-05
Client ID: SB02_4-6
Sample Location: MANHATTAN

Date Collected: 05/31/18 11:27
Date Received: 05/31/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.3		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.24	1	06/05/18 07:40	06/05/18 12:25	1,9010C/9012B	LH
Chromium, Hexavalent	0.540	J	mg/kg	0.960	0.192	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-06

Date Collected: 05/31/18 11:35

Client ID: SB02_6-8

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.2	0.25	1	06/05/18 07:40	06/05/18 12:26	1,9010C/9012B	LH
Chromium, Hexavalent	0.608	J	mg/kg	0.955	0.191	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-07

Date Collected: 05/31/18 09:58

Client ID: SB03_0-1

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 07:40	06/05/18 12:27	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.916	0.183	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-08

Date Collected: 05/31/18 10:05

Client ID: SB03_3-4

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.5		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	06/05/18 07:40	06/05/18 12:30	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.865	0.173	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-09

Date Collected: 05/31/18 10:17

Client ID: SB03_7-8

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.8		%	0.100	NA	1	-	06/01/18 05:19	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.2	0.26	1	06/05/18 07:40	06/05/18 12:31	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	1.02	0.203	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

SAMPLE RESULTS

Lab ID: L1820045-10

Date Collected: 05/31/18 00:00

Client ID: SBDUP01_053118

Date Received: 05/31/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.0		%	0.100	NA	1	-	06/02/18 13:56	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 07:40	06/05/18 12:34	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.889	0.178	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH



Project Name: 538-542 WEST 29TH ST.

Lab Number: L1820045

Project Number: 170515401

Report Date: 06/07/18

Method Blank Analysis
Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-10 Batch: WG1122385-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	06/04/18 22:50	06/05/18 13:28	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 01-08 Batch: WG1122457-1									
Cyanide, Total	ND	mg/kg	0.92	0.19	1	06/05/18 07:40	06/05/18 12:12	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 09-10 Batch: WG1122460-1									
Cyanide, Total	ND	mg/kg	0.92	0.19	1	06/05/18 07:40	06/05/18 12:11	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-10 Batch: WG1122385-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 Batch: WG1122457-2 WG1122457-3								
Cyanide, Total	33	Q	58	Q	80-120	56	Q	35
General Chemistry - Westborough Lab Associated sample(s): 09-10 Batch: WG1122460-2 WG1122460-3								
Cyanide, Total	33	Q	58	Q	80-120	55	Q	35

Matrix Spike Analysis Batch Quality Control

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Lab Number: L1820045
Report Date: 06/07/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1122385-4 QC Sample: L1820045-10 Client ID: SBDUP01_053118												
Chromium, Hexavalent	ND	909	887	98		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-08 QC Batch ID: WG1122457-4 WG1122457-5 QC Sample: L1820485-01 Client ID: MS Sample												
Cyanide, Total	ND	11	11	96		11	98		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 09-10 QC Batch ID: WG1122460-4 WG1122460-5 QC Sample: L1820045-09 Client ID: SB03_7-8												
Cyanide, Total	ND	12	12	100		12	96		75-125	0		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-542 WEST 29TH ST.

Project Number: 170515401

Lab Number: L1820045

Report Date: 06/07/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-09 QC Batch ID: WG1121357-1 QC Sample: L1820082-01 Client ID: DUP Sample						
Solids, Total	95.5	95.1	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1121865-1 QC Sample: L1819971-01 Client ID: DUP Sample						
Solids, Total	80.0	79.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1122385-6 QC Sample: L1820045-10 Client ID: SBDUP01_053118						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 538-542 WEST 29TH ST.
Project Number: 170515401

Serial_No:06071820:59
Lab Number: L1820045
Report Date: 06/07/18

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler **Custody Seal**
A Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820045-01A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-01B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-01C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-01D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-01F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-01G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-02A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-02B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-02C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-02D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-02F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-02G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-03A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days



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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820045-03B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-03C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-03D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-03F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-03G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-04A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1820045-04B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1820045-04C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1820045-04D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-04E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-04F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-04G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-05A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-05B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-05C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-05D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-05E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

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Container Information

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L1820045-05F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-05G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-06A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-06B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-06C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-06D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-06E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-06F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-06G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-07A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-07B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-07C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-07D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-07E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-07F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-07G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-08A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-08B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)

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Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820045-08C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-08D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-08E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-08F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-08G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-09A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-09B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-09C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-09D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-09E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820045-09F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-09G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-10A	Vial MeOH preserved	A	NA		5.5	Y	Absent		NYTCL-8260HLW(14)
L1820045-10B	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-10C	Vial water preserved	A	NA		5.5	Y	Absent	01-JUN-18 07:57	NYTCL-8260HLW(14)
L1820045-10D	Plastic 2oz unpreserved for TS	A	NA		5.5	Y	Absent		TS(7)
L1820045-10E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)

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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820045-10F	Glass 120ml/4oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-10G	Glass 250ml/8oz unpreserved	A	NA		5.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1820045-11A	Vial HCl preserved	A	NA		5.5	Y	Absent		NYTCL-8260(14)
L1820045-11B	Vial HCl preserved	A	NA		5.5	Y	Absent		NYTCL-8260(14)

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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.


EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page _____ of _____		Date Rec'd in Lab 5/31/18		ALPHA Job # L1820045			
		Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288		Project Information Project Name: 538-542 West 29th St Project Location: Manhattan Project # 170515401 (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO # _____			
Client Information Client: Langer Address: 360 W 31st St 8th Fl NY, NY 10001 Phone: 212 479-5400 Fax: _____ Email: esneed@langer.com		Project Manager: Emily Sneed ALPHAQuote #: _____ Turn-Around Time Standard <input type="checkbox"/> Due Date: _____ Rush (only if pre approved) <input type="checkbox"/> # of Days: _____		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other: _____					
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: _____ Please specify Metals or TAL. _____						ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Total Bottles	
20045-01		SB01-6-2		5/31/18 12:12		SD		KG		✓ ✓ ✓ ✓	
02		SB01-3-4		5/31/18 12:22		SD		KG		✓ ✓ ✓ ✓	
03		SB01-8-9		5/31/18 12:29		SD		KG		✓ ✓ ✓ ✓	
04		SB02-0-2		5/31/18 11:20		SD		KG		✓ ✓ ✓ ✓	
05		SB02-4-6		5/31/18 11:27		SD		KG		✓ ✓ ✓ ✓	
06		SB02-6-8		5/31/18 11:35		SD		KG		✓ ✓ ✓ ✓	
07		SB03-0-1		5/31/18 09:58		SD		KG		✓ ✓ ✓ ✓	
08		SB03-3-4		5/31/18 10:05		SD		KG		✓ ✓ ✓ ✓	
09		SB03-7-8		5/31/18 10:17		SD		KG		✓ ✓ ✓ ✓	
10		SB03-7-8		5/31/18 00:00		SD		KG		✓ ✓ ✓ ✓	
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		V A A A A F A A A		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By: _____		Date/Time: _____		Received By: _____		Date/Time: _____		_____		_____	
_____		5/31/18 14:53		_____		5/31/18 14:53		_____		_____	
_____		5/31/18 1915		_____		5/31/18 1915		_____		_____	
_____		5/31/18 2315		_____		5/31/18 2315		_____		_____	

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2	Date Rec'd in Lab 5/31/18	ALPHA Job # L1820095	
		of 2			
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information
Client Information		Project Name: S38342 wsl 2nd		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info
Client: Lanyon		Project Location: Malden		PO #	
Address: 760 W 31st St 8th Floor		Project # 170515401		Regulatory Requirement	
Phone: 617-477-5400		(Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	
Fax:		Project Manager: Emily Sneed		Disposal Site Information	
Email: esneed@lanyon.com		ALPHAQuote #:		Please identify below location of applicable disposal facilities.	
Turn-Around Time		Standard <input checked="" type="checkbox"/> Due Date:		Disposal Facility:	
Rush (only if pre approved) <input type="checkbox"/> # of Days:				<input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
These samples have been previously analyzed by Alpha <input type="checkbox"/>			ANALYSIS		Sample Filtration
Other project specific requirements/comments:			Part 375 VOCs ✓		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)
Please specify Metals or TAL.					Total Bottles
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix	Sampler's Initials	Sample Specific Comments
		Date Time			
20045-11	SBT01_053118	5/31/18		KG	Trip Blank
Preservative Code:		Container Code		Westboro: Certification No: MA935	
A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Mansfield: Certification No: MA015	
				Container Type	
				Preservative	
		Relinquished By:		Received By:	
		Date/Time		Date/Time	
		5/31/18 14:53		5/31/18 14:53	
		5/31/18 14:11		5/31/18 19:15	
		5/31/18 2:45		5/31/18 2:30	

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



ANALYTICAL REPORT

Lab Number:	L1820339
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Emily Snead
Phone:	(212) 479-5432
Project Name:	538-540 W 29TH ST.
Project Number:	170515401
Report Date:	06/11/18

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

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

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



Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1820339-01	SBTB02_060118	WATER	MANHATTAN	06/01/18 00:00	06/01/18
L1820339-02	SB06_14-16	SOIL	MANHATTAN	06/01/18 12:20	06/01/18
L1820339-03	SB04_1-3	SOIL	MANHATTAN	06/01/18 09:34	06/01/18
L1820339-04	SB04_6-8	SOIL	MANHATTAN	06/01/18 09:42	06/01/18
L1820339-05	SB04_10-12	SOIL	MANHATTAN	06/01/18 09:55	06/01/18
L1820339-06	SB05_0-2	SOIL	MANHATTAN	06/01/18 10:30	06/01/18
L1820339-07	SB05_7-8	SOIL	MANHATTAN	06/01/18 10:40	06/01/18
L1820339-08	SB05_11-12	SOIL	MANHATTAN	06/01/18 10:56	06/01/18
L1820339-09	SB06_0-2	SOIL	MANHATTAN	06/01/18 12:02	06/01/18
L1820339-10	SB06_6-8	SOIL	MANHATTAN	06/01/18 12:08	06/01/18
L1820339-11	SB06_12-14	SOIL	MANHATTAN	06/01/18 12:15	06/01/18
L1820339-12	SBDUP02_060118	SOIL	MANHATTAN	06/01/18 00:00	06/01/18
L1820339-13	TW03_060118	WATER	MANHATTAN	06/01/18 11:30	06/01/18
L1820339-14	TW05_060118	WATER	MANHATTAN	06/01/18 13:30	06/01/18
L1820339-15	TWDUP01_060118	WATER	MANHATTAN	06/01/18 00:00	06/01/18
L1820339-16	GWTB01_060118	WATER	MANHATTAN	06/01/18 00:00	06/01/18

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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

HOLD POLICY

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

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

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Case Narrative (continued)

Report Submission

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

Volatile Organics

L1820339-03: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (18%) and the surrogate recoveries for toluene-d8 (131%) and 4-bromofluorobenzene (179%) were outside the acceptance criteria. A second low-level vial was analyzed, but yielded no internal standard recoveries. A high-level analysis was performed, and those results are also reported.

L1820339-10: The surrogate recovery for 1,2-dichloroethane-d4 (132%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

L1820339-13: The surrogate recovery is outside the acceptance criteria for 1,2-dichloroethane-d4 (133%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

Total Metals

L1820339-02 through -12: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

The WG1122868-3 MS recovery, performed on L1820339-03, is outside the acceptance criteria for mercury (51%). A post digestion spike was performed and was within acceptance criteria.

The WG1123199-3 MS recoveries for aluminum (634%), calcium (830%), iron (1030%), and manganese (129%), performed on L1820339-03, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1123199-3 MS recoveries, performed on L1820339-03, are outside the acceptance criteria for barium (127%), copper (146%), lead (569%), manganese (129%), and zinc (126%). A post digestion spike was performed and was within acceptance criteria.

The WG1123199-4 Laboratory Duplicate RPDs for barium (28%), copper (52%), iron (65%), lead (132%),

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Case Narrative (continued)

manganese (29%), nickel (34%), vanadium (30%), and zinc (39%), performed on L1820339-03, are outside the acceptance criteria. The elevated RPDs have been attributed to the non-homogeneous nature of the native sample.

Dissolved Metals

The WG1123373-3 MS recovery, performed on L1820339-13, is outside the acceptance criteria for iron (130%). A post digestion spike was performed and was within acceptance criteria.

Cyanide, Total

The WG1122634-2/-3 LCS/LCSD recoveries (77%/69%), associated with L1820339-03 through -12, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

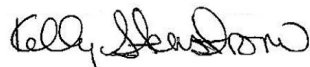
The WG1123793-2/-3 LCS/LCSD recoveries (32%/32%), associated with L1820339-02, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1123747-2 LCS recovery (77%), associated with L1820339-02, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

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

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 06/11/18

ORGANICS

VOLATILES

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-01
 Client ID: SBTB02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 22:47
 Analyst: NLK

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

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-01
 Client ID: SBTB02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

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

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-01
Client ID: SBTB02_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/08/18 11:14
 Analyst: MV
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.5	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.26	1
Chloroform	ND		ug/kg	1.4	0.35	1
Carbon tetrachloride	ND		ug/kg	0.95	0.33	1
1,2-Dichloropropane	ND		ug/kg	3.3	0.22	1
Dibromochloromethane	ND		ug/kg	0.95	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.30	1
Tetrachloroethene	ND		ug/kg	0.95	0.29	1
Chlorobenzene	ND		ug/kg	0.95	0.33	1
Trichlorofluoromethane	ND		ug/kg	4.7	0.40	1
1,2-Dichloroethane	ND		ug/kg	0.95	0.23	1
1,1,1-Trichloroethane	ND		ug/kg	0.95	0.33	1
Bromodichloromethane	ND		ug/kg	0.95	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	0.95	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.95	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.95	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.7	0.31	1
Bromoform	ND		ug/kg	3.8	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.95	0.28	1
Benzene	0.42	J	ug/kg	0.95	0.18	1
Toluene	ND		ug/kg	1.4	0.18	1
Ethylbenzene	2.8		ug/kg	0.95	0.16	1
Chloromethane	ND		ug/kg	4.7	0.41	1
Bromomethane	ND		ug/kg	1.9	0.32	1
Vinyl chloride	ND		ug/kg	1.9	0.30	1
Chloroethane	ND		ug/kg	1.9	0.30	1
1,1-Dichloroethene	ND		ug/kg	0.95	0.35	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.23	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.95	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	4.7	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.7	0.17	1
Methyl tert butyl ether	0.28	J	ug/kg	1.9	0.14	1
p/m-Xylene	ND		ug/kg	1.9	0.33	1
o-Xylene	ND		ug/kg	1.9	0.32	1
Xylenes, Total	ND		ug/kg	1.9	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	0.95	0.32	1
1,2-Dichloroethene, Total	ND		ug/kg	0.95	0.23	1
Dibromomethane	ND		ug/kg	9.5	0.23	1
Styrene	ND		ug/kg	1.9	0.38	1
Dichlorodifluoromethane	ND		ug/kg	9.5	0.47	1
Acetone	17		ug/kg	9.5	2.2	1
Carbon disulfide	ND		ug/kg	9.5	1.0	1
2-Butanone	ND		ug/kg	9.5	0.65	1
Vinyl acetate	ND		ug/kg	9.5	0.14	1
4-Methyl-2-pentanone	ND		ug/kg	9.5	0.23	1
1,2,3-Trichloropropane	ND		ug/kg	9.5	0.17	1
2-Hexanone	ND		ug/kg	9.5	0.63	1
Bromochloromethane	ND		ug/kg	4.7	0.34	1
2,2-Dichloropropane	ND		ug/kg	4.7	0.43	1
1,2-Dibromoethane	ND		ug/kg	3.8	0.19	1
1,3-Dichloropropane	ND		ug/kg	4.7	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.95	0.30	1
Bromobenzene	ND		ug/kg	4.7	0.21	1
n-Butylbenzene	0.79	J	ug/kg	0.95	0.22	1
sec-Butylbenzene	0.82	J	ug/kg	0.95	0.20	1
tert-Butylbenzene	ND		ug/kg	4.7	0.23	1
o-Chlorotoluene	ND		ug/kg	4.7	0.21	1
p-Chlorotoluene	ND		ug/kg	4.7	0.17	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.7	0.38	1
Hexachlorobutadiene	ND		ug/kg	4.7	0.33	1
Isopropylbenzene	4.0		ug/kg	0.95	0.18	1
p-Isopropyltoluene	ND		ug/kg	0.95	0.19	1
Naphthalene	0.45	J	ug/kg	4.7	0.13	1
Acrylonitrile	ND		ug/kg	9.5	0.49	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
Client ID: SB06_14-16
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	6.6		ug/kg	0.95	0.20	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.7	0.24	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.7	0.20	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.7	0.15	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.7	0.18	1
1,4-Dioxane	ND		ug/kg	38	14.	1
p-Diethylbenzene	ND		ug/kg	3.8	3.8	1
p-Ethyltoluene	ND		ug/kg	3.8	0.22	1
1,2,4,5-Tetramethylbenzene	3.3	J	ug/kg	3.8	0.15	1
Ethyl ether	ND		ug/kg	4.7	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.7	0.37	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	100		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/08/18 11:40
 Analyst: JC
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.38	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.30	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03

Date Collected: 06/01/18 09:34

Client ID: SB04_1-3

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	ND		ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.29	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	9.4	J	ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.83	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.48	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.62	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
Client ID: SB04_1-3
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	131	Q	70-130
4-Bromofluorobenzene	179	Q	70-130
Dibromofluoromethane	109		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/11/18 10:19
 Analyst: MV
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	970	160	1
1,1-Dichloroethane	ND		ug/kg	140	26.	1
Chloroform	94	J	ug/kg	140	36.	1
Carbon tetrachloride	ND		ug/kg	97	34.	1
1,2-Dichloropropane	ND		ug/kg	340	22.	1
Dibromochloromethane	ND		ug/kg	97	17.	1
1,1,2-Trichloroethane	ND		ug/kg	140	30.	1
Tetrachloroethene	130		ug/kg	97	29.	1
Chlorobenzene	ND		ug/kg	97	34.	1
Trichlorofluoromethane	ND		ug/kg	480	40.	1
1,2-Dichloroethane	ND		ug/kg	97	24.	1
1,1,1-Trichloroethane	ND		ug/kg	97	34.	1
Bromodichloromethane	ND		ug/kg	97	30.	1
trans-1,3-Dichloropropene	ND		ug/kg	97	20.	1
cis-1,3-Dichloropropene	ND		ug/kg	97	22.	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	480	32.	1
Bromoform	ND		ug/kg	390	23.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	97	29.	1
Benzene	32	J	ug/kg	97	19.	1
Toluene	180		ug/kg	140	19.	1
Ethylbenzene	31	J	ug/kg	97	16.	1
Chloromethane	260	J	ug/kg	480	42.	1
Bromomethane	ND		ug/kg	190	33.	1
Vinyl chloride	ND		ug/kg	190	31.	1
Chloroethane	ND		ug/kg	190	31.	1
1,1-Dichloroethene	ND		ug/kg	97	36.	1
trans-1,2-Dichloroethene	ND		ug/kg	140	23.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03

Date Collected: 06/01/18 09:34

Client ID: SB04_1-3

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	110		ug/kg	97	29.	1
1,2-Dichlorobenzene	ND		ug/kg	480	18.	1
1,3-Dichlorobenzene	ND		ug/kg	480	21.	1
1,4-Dichlorobenzene	ND		ug/kg	480	18.	1
Methyl tert butyl ether	24	J	ug/kg	190	15.	1
p/m-Xylene	150	J	ug/kg	190	34.	1
o-Xylene	36	J	ug/kg	190	33.	1
Xylene (Total)	190	J	ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	97	33.	1
1,2-Dichloroethene (total)	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	970	23.	1
Styrene	ND		ug/kg	190	39.	1
Dichlorodifluoromethane	ND		ug/kg	970	48.	1
Acetone	660	J	ug/kg	970	220	1
Carbon disulfide	ND		ug/kg	970	110	1
2-Butanone	380	J	ug/kg	970	67.	1
Vinyl acetate	ND		ug/kg	970	15.	1
4-Methyl-2-pentanone	ND		ug/kg	970	24.	1
1,2,3-Trichloropropane	ND		ug/kg	970	17.	1
2-Hexanone	ND		ug/kg	970	65.	1
Bromochloromethane	ND		ug/kg	480	35.	1
2,2-Dichloropropane	ND		ug/kg	480	44.	1
1,2-Dibromoethane	ND		ug/kg	390	19.	1
1,3-Dichloropropane	ND		ug/kg	480	18.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	97	31.	1
Bromobenzene	ND		ug/kg	480	21.	1
n-Butylbenzene	ND		ug/kg	97	22.	1
sec-Butylbenzene	ND		ug/kg	97	21.	1
tert-Butylbenzene	ND		ug/kg	480	24.	1
o-Chlorotoluene	ND		ug/kg	480	21.	1
p-Chlorotoluene	ND		ug/kg	480	18.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	480	38.	1
Hexachlorobutadiene	ND		ug/kg	480	34.	1
Isopropylbenzene	ND		ug/kg	97	19.	1
p-Isopropyltoluene	ND		ug/kg	97	20.	1
Naphthalene	22	J	ug/kg	480	13.	1
Acrylonitrile	ND		ug/kg	970	50.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
Client ID: SB04_1-3
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
n-Propylbenzene	ND		ug/kg	97	21.	1
1,2,3-Trichlorobenzene	ND		ug/kg	480	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	480	21.	1
1,3,5-Trimethylbenzene	23	J	ug/kg	480	16.	1
1,2,4-Trimethylbenzene	ND		ug/kg	480	18.	1
1,4-Dioxane	ND		ug/kg	3900	1400	1
1,4-Diethylbenzene	ND		ug/kg	390	390	1
4-Ethyltoluene	ND		ug/kg	390	23.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	390	15.	1
Ethyl ether	ND		ug/kg	480	25.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	480	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	97		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 12:38
 Analyst: KD
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	13	2.1	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.47	1
Carbon tetrachloride	ND		ug/kg	1.3	0.44	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.29	1
Dibromochloromethane	ND		ug/kg	1.3	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.40	1
Tetrachloroethene	ND		ug/kg	1.3	0.38	1
Chlorobenzene	ND		ug/kg	1.3	0.44	1
Trichlorofluoromethane	ND		ug/kg	6.4	0.53	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.44	1
Bromodichloromethane	ND		ug/kg	1.3	0.39	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.4	0.42	1
Bromoform	ND		ug/kg	5.1	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.38	1
Benzene	ND		ug/kg	1.3	0.24	1
Toluene	ND		ug/kg	1.9	0.25	1
Ethylbenzene	ND		ug/kg	1.3	0.22	1
Chloromethane	ND		ug/kg	6.4	0.56	1
Bromomethane	ND		ug/kg	2.5	0.43	1
Vinyl chloride	ND		ug/kg	2.5	0.40	1
Chloroethane	ND		ug/kg	2.5	0.40	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.31	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04

Date Collected: 06/01/18 09:42

Client ID: SB04_6-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.4	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	6.4	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.45	1
o-Xylene	ND		ug/kg	2.5	0.43	1
Xylenes, Total	ND		ug/kg	2.5	0.43	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.44	1
1,2-Dichloroethene, Total	ND		ug/kg	1.3	0.31	1
Dibromomethane	ND		ug/kg	13	0.30	1
Styrene	ND		ug/kg	2.5	0.51	1
Dichlorodifluoromethane	ND		ug/kg	13	0.64	1
Acetone	ND		ug/kg	13	2.9	1
Carbon disulfide	ND		ug/kg	13	1.4	1
2-Butanone	ND		ug/kg	13	0.88	1
Vinyl acetate	ND		ug/kg	13	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	13	0.31	1
1,2,3-Trichloropropane	ND		ug/kg	13	0.22	1
2-Hexanone	ND		ug/kg	13	0.85	1
Bromochloromethane	ND		ug/kg	6.4	0.45	1
2,2-Dichloropropane	ND		ug/kg	6.4	0.57	1
1,2-Dibromoethane	ND		ug/kg	5.1	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.4	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.40	1
Bromobenzene	ND		ug/kg	6.4	0.28	1
n-Butylbenzene	ND		ug/kg	1.3	0.29	1
sec-Butylbenzene	ND		ug/kg	1.3	0.28	1
tert-Butylbenzene	ND		ug/kg	6.4	0.31	1
o-Chlorotoluene	ND		ug/kg	6.4	0.28	1
p-Chlorotoluene	ND		ug/kg	6.4	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.4	0.50	1
Hexachlorobutadiene	ND		ug/kg	6.4	0.44	1
Isopropylbenzene	ND		ug/kg	1.3	0.25	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.26	1
Naphthalene	ND		ug/kg	6.4	0.18	1
Acrylonitrile	ND		ug/kg	13	0.65	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
Client ID: SB04_6-8
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.4	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.4	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.4	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.4	0.24	1
1,4-Dioxane	ND		ug/kg	51	18.	1
p-Diethylbenzene	ND		ug/kg	5.1	5.1	1
p-Ethyltoluene	ND		ug/kg	5.1	0.30	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.1	0.20	1
Ethyl ether	ND		ug/kg	6.4	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	0.50	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	109		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 13:04
 Analyst: KD
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.3	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.22	1
Chloroform	ND		ug/kg	1.2	0.31	1
Carbon tetrachloride	ND		ug/kg	0.83	0.29	1
1,2-Dichloropropane	ND		ug/kg	2.9	0.19	1
Dibromochloromethane	ND		ug/kg	0.83	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.26	1
Tetrachloroethene	ND		ug/kg	0.83	0.25	1
Chlorobenzene	ND		ug/kg	0.83	0.29	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.35	1
1,2-Dichloroethane	ND		ug/kg	0.83	0.20	1
1,1,1-Trichloroethane	ND		ug/kg	0.83	0.29	1
Bromodichloromethane	ND		ug/kg	0.83	0.26	1
trans-1,3-Dichloropropene	ND		ug/kg	0.83	0.17	1
cis-1,3-Dichloropropene	ND		ug/kg	0.83	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.83	0.17	1
1,1-Dichloropropene	ND		ug/kg	4.2	0.27	1
Bromoform	ND		ug/kg	3.3	0.20	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.83	0.25	1
Benzene	ND		ug/kg	0.83	0.16	1
Toluene	ND		ug/kg	1.2	0.16	1
Ethylbenzene	ND		ug/kg	0.83	0.14	1
Chloromethane	ND		ug/kg	4.2	0.36	1
Bromomethane	ND		ug/kg	1.7	0.28	1
Vinyl chloride	ND		ug/kg	1.7	0.26	1
Chloroethane	ND		ug/kg	1.7	0.26	1
1,1-Dichloroethene	ND		ug/kg	0.83	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.2	0.20	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05

Date Collected: 06/01/18 09:55

Client ID: SB04_10-12

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.83	0.25	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.13	1
p/m-Xylene	ND		ug/kg	1.7	0.29	1
o-Xylene	ND		ug/kg	1.7	0.28	1
Xylenes, Total	ND		ug/kg	1.7	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.83	0.28	1
1,2-Dichloroethene, Total	ND		ug/kg	0.83	0.20	1
Dibromomethane	ND		ug/kg	8.3	0.20	1
Styrene	ND		ug/kg	1.7	0.33	1
Dichlorodifluoromethane	ND		ug/kg	8.3	0.42	1
Acetone	33		ug/kg	8.3	1.9	1
Carbon disulfide	ND		ug/kg	8.3	0.92	1
2-Butanone	ND		ug/kg	8.3	0.57	1
Vinyl acetate	ND		ug/kg	8.3	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.3	0.20	1
1,2,3-Trichloropropane	ND		ug/kg	8.3	0.15	1
2-Hexanone	ND		ug/kg	8.3	0.55	1
Bromochloromethane	ND		ug/kg	4.2	0.30	1
2,2-Dichloropropane	ND		ug/kg	4.2	0.37	1
1,2-Dibromoethane	ND		ug/kg	3.3	0.16	1
1,3-Dichloropropane	ND		ug/kg	4.2	0.15	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.83	0.26	1
Bromobenzene	ND		ug/kg	4.2	0.18	1
n-Butylbenzene	ND		ug/kg	0.83	0.19	1
sec-Butylbenzene	ND		ug/kg	0.83	0.18	1
tert-Butylbenzene	ND		ug/kg	4.2	0.20	1
o-Chlorotoluene	ND		ug/kg	4.2	0.18	1
p-Chlorotoluene	ND		ug/kg	4.2	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	0.33	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.29	1
Isopropylbenzene	ND		ug/kg	0.83	0.16	1
p-Isopropyltoluene	ND		ug/kg	0.83	0.17	1
Naphthalene	ND		ug/kg	4.2	0.11	1
Acrylonitrile	ND		ug/kg	8.3	0.43	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
Client ID: SB04_10-12
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.83	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.2	0.21	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.2	0.18	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.13	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.15	1
1,4-Dioxane	ND		ug/kg	33	12.	1
p-Diethylbenzene	ND		ug/kg	3.3	3.3	1
p-Ethyltoluene	ND		ug/kg	3.3	0.19	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.3	0.13	1
Ethyl ether	ND		ug/kg	4.2	0.22	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.2	0.33	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	110		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 13:30
 Analyst: KD
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.34	1
Chloroform	ND		ug/kg	1.9	0.46	1
Carbon tetrachloride	ND		ug/kg	1.2	0.43	1
1,2-Dichloropropane	ND		ug/kg	4.4	0.28	1
Dibromochloromethane	ND		ug/kg	1.2	0.22	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.39	1
Tetrachloroethene	ND		ug/kg	1.2	0.38	1
Chlorobenzene	ND		ug/kg	1.2	0.43	1
Trichlorofluoromethane	ND		ug/kg	6.2	0.52	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.44	1
Bromodichloromethane	ND		ug/kg	1.2	0.38	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.29	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.26	1
1,1-Dichloropropene	ND		ug/kg	6.2	0.41	1
Bromoform	ND		ug/kg	5.0	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.37	1
Benzene	ND		ug/kg	1.2	0.24	1
Toluene	ND		ug/kg	1.9	0.24	1
Ethylbenzene	ND		ug/kg	1.2	0.21	1
Chloromethane	ND		ug/kg	6.2	0.54	1
Bromomethane	ND		ug/kg	2.5	0.42	1
Vinyl chloride	ND		ug/kg	2.5	0.39	1
Chloroethane	ND		ug/kg	2.5	0.39	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.46	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.30	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.38	1
1,2-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
1,3-Dichlorobenzene	ND		ug/kg	6.2	0.27	1
1,4-Dichlorobenzene	ND		ug/kg	6.2	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.19	1
p/m-Xylene	ND		ug/kg	2.5	0.44	1
o-Xylene	ND		ug/kg	2.5	0.42	1
Xylenes, Total	ND		ug/kg	2.5	0.42	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.42	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.30	1
Dibromomethane	ND		ug/kg	12	0.30	1
Styrene	ND		ug/kg	2.5	0.50	1
Dichlorodifluoromethane	ND		ug/kg	12	0.62	1
Acetone	ND		ug/kg	12	2.8	1
Carbon disulfide	ND		ug/kg	12	1.4	1
2-Butanone	ND		ug/kg	12	0.86	1
Vinyl acetate	ND		ug/kg	12	0.19	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.30	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.22	1
2-Hexanone	ND		ug/kg	12	0.83	1
Bromochloromethane	ND		ug/kg	6.2	0.44	1
2,2-Dichloropropane	ND		ug/kg	6.2	0.56	1
1,2-Dibromoethane	ND		ug/kg	5.0	0.25	1
1,3-Dichloropropane	ND		ug/kg	6.2	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.40	1
Bromobenzene	ND		ug/kg	6.2	0.27	1
n-Butylbenzene	ND		ug/kg	1.2	0.28	1
sec-Butylbenzene	ND		ug/kg	1.2	0.27	1
tert-Butylbenzene	ND		ug/kg	6.2	0.31	1
o-Chlorotoluene	ND		ug/kg	6.2	0.28	1
p-Chlorotoluene	ND		ug/kg	6.2	0.23	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.2	0.49	1
Hexachlorobutadiene	ND		ug/kg	6.2	0.43	1
Isopropylbenzene	ND		ug/kg	1.2	0.24	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.25	1
Naphthalene	ND		ug/kg	6.2	0.17	1
Acrylonitrile	ND		ug/kg	12	0.64	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
Client ID: SB05_0-2
Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.27	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.2	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.2	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.2	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.2	0.23	1
1,4-Dioxane	ND		ug/kg	50	18.	1
p-Diethylbenzene	ND		ug/kg	5.0	5.0	1
p-Ethyltoluene	ND		ug/kg	5.0	0.29	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.0	0.19	1
Ethyl ether	ND		ug/kg	6.2	0.32	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	0.49	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	118		70-130
Dibromofluoromethane	114		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 13:55
 Analyst: KD
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	15	2.5	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.41	1
Chloroform	ND		ug/kg	2.3	0.56	1
Carbon tetrachloride	ND		ug/kg	1.5	0.52	1
1,2-Dichloropropane	ND		ug/kg	5.3	0.35	1
Dibromochloromethane	ND		ug/kg	1.5	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	2.3	0.48	1
Tetrachloroethene	ND		ug/kg	1.5	0.46	1
Chlorobenzene	ND		ug/kg	1.5	0.53	1
Trichlorofluoromethane	ND		ug/kg	7.6	0.64	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.37	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.53	1
Bromodichloromethane	ND		ug/kg	1.5	0.47	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.32	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.32	1
1,1-Dichloropropene	ND		ug/kg	7.6	0.50	1
Bromoform	ND		ug/kg	6.1	0.36	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.45	1
Benzene	ND		ug/kg	1.5	0.29	1
Toluene	ND		ug/kg	2.3	0.30	1
Ethylbenzene	ND		ug/kg	1.5	0.26	1
Chloromethane	ND		ug/kg	7.6	0.66	1
Bromomethane	ND		ug/kg	3.0	0.51	1
Vinyl chloride	ND		ug/kg	3.0	0.48	1
Chloroethane	ND		ug/kg	3.0	0.48	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.57	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.37	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07

Date Collected: 06/01/18 10:40

Client ID: SB05_7-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.46	1
1,2-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	7.6	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	7.6	0.28	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.23	1
p/m-Xylene	ND		ug/kg	3.0	0.53	1
o-Xylene	ND		ug/kg	3.0	0.51	1
Xylenes, Total	ND		ug/kg	3.0	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.52	1
1,2-Dichloroethene, Total	ND		ug/kg	1.5	0.37	1
Dibromomethane	ND		ug/kg	15	0.36	1
Styrene	ND		ug/kg	3.0	0.61	1
Dichlorodifluoromethane	ND		ug/kg	15	0.76	1
Acetone	9.2	J	ug/kg	15	3.5	1
Carbon disulfide	ND		ug/kg	15	1.7	1
2-Butanone	ND		ug/kg	15	1.0	1
Vinyl acetate	ND		ug/kg	15	0.23	1
4-Methyl-2-pentanone	ND		ug/kg	15	0.37	1
1,2,3-Trichloropropane	ND		ug/kg	15	0.27	1
2-Hexanone	ND		ug/kg	15	1.0	1
Bromochloromethane	ND		ug/kg	7.6	0.54	1
2,2-Dichloropropane	ND		ug/kg	7.6	0.68	1
1,2-Dibromoethane	ND		ug/kg	6.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	7.6	0.28	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.48	1
Bromobenzene	ND		ug/kg	7.6	0.33	1
n-Butylbenzene	ND		ug/kg	1.5	0.35	1
sec-Butylbenzene	ND		ug/kg	1.5	0.33	1
tert-Butylbenzene	ND		ug/kg	7.6	0.38	1
o-Chlorotoluene	ND		ug/kg	7.6	0.34	1
p-Chlorotoluene	ND		ug/kg	7.6	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.6	0.60	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.53	1
Isopropylbenzene	ND		ug/kg	1.5	0.30	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.31	1
Naphthalene	ND		ug/kg	7.6	0.21	1
Acrylonitrile	ND		ug/kg	15	0.78	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
Client ID: SB05_7-8
Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.5	0.33	1
1,2,3-Trichlorobenzene	ND		ug/kg	7.6	0.38	1
1,2,4-Trichlorobenzene	ND		ug/kg	7.6	0.33	1
1,3,5-Trimethylbenzene	ND		ug/kg	7.6	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	7.6	0.28	1
1,4-Dioxane	ND		ug/kg	61	22.	1
p-Diethylbenzene	ND		ug/kg	6.1	6.1	1
p-Ethyltoluene	ND		ug/kg	6.1	0.36	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.24	1
Ethyl ether	ND		ug/kg	7.6	0.40	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.6	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	120		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	110		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 14:21
 Analyst: KD
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	8.8	1.4	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.24	1
Chloroform	ND		ug/kg	1.3	0.33	1
Carbon tetrachloride	ND		ug/kg	0.88	0.30	1
1,2-Dichloropropane	ND		ug/kg	3.1	0.20	1
Dibromochloromethane	ND		ug/kg	0.88	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.28	1
Tetrachloroethene	ND		ug/kg	0.88	0.27	1
Chlorobenzene	ND		ug/kg	0.88	0.31	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.37	1
1,2-Dichloroethane	ND		ug/kg	0.88	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.31	1
Bromodichloromethane	ND		ug/kg	0.88	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	0.88	0.18	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.88	0.18	1
1,1-Dichloropropene	ND		ug/kg	4.4	0.29	1
Bromoform	ND		ug/kg	3.5	0.21	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.26	1
Benzene	ND		ug/kg	0.88	0.17	1
Toluene	ND		ug/kg	1.3	0.17	1
Ethylbenzene	ND		ug/kg	0.88	0.15	1
Chloromethane	ND		ug/kg	4.4	0.38	1
Bromomethane	ND		ug/kg	1.8	0.30	1
Vinyl chloride	ND		ug/kg	1.8	0.28	1
Chloroethane	ND		ug/kg	1.8	0.28	1
1,1-Dichloroethene	ND		ug/kg	0.88	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.21	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08

Date Collected: 06/01/18 10:56

Client ID: SB05_11-12

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.88	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.16	1
Methyl tert butyl ether	ND		ug/kg	1.8	0.13	1
p/m-Xylene	ND		ug/kg	1.8	0.31	1
o-Xylene	ND		ug/kg	1.8	0.30	1
Xylenes, Total	ND		ug/kg	1.8	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	0.88	0.30	1
1,2-Dichloroethene, Total	ND		ug/kg	0.88	0.21	1
Dibromomethane	ND		ug/kg	8.8	0.21	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	8.8	0.44	1
Acetone	ND		ug/kg	8.8	2.0	1
Carbon disulfide	ND		ug/kg	8.8	0.97	1
2-Butanone	ND		ug/kg	8.8	0.61	1
Vinyl acetate	ND		ug/kg	8.8	0.13	1
4-Methyl-2-pentanone	ND		ug/kg	8.8	0.22	1
1,2,3-Trichloropropane	ND		ug/kg	8.8	0.16	1
2-Hexanone	ND		ug/kg	8.8	0.59	1
Bromochloromethane	ND		ug/kg	4.4	0.31	1
2,2-Dichloropropane	ND		ug/kg	4.4	0.40	1
1,2-Dibromoethane	ND		ug/kg	3.5	0.18	1
1,3-Dichloropropane	ND		ug/kg	4.4	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.28	1
Bromobenzene	ND		ug/kg	4.4	0.19	1
n-Butylbenzene	ND		ug/kg	0.88	0.20	1
sec-Butylbenzene	ND		ug/kg	0.88	0.19	1
tert-Butylbenzene	ND		ug/kg	4.4	0.22	1
o-Chlorotoluene	ND		ug/kg	4.4	0.19	1
p-Chlorotoluene	ND		ug/kg	4.4	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.4	0.35	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.31	1
Isopropylbenzene	ND		ug/kg	0.88	0.17	1
p-Isopropyltoluene	ND		ug/kg	0.88	0.18	1
Naphthalene	ND		ug/kg	4.4	0.12	1
Acrylonitrile	ND		ug/kg	8.8	0.45	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.88	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.19	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	0.14	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	0.16	1
1,4-Dioxane	ND		ug/kg	35	13.	1
p-Diethylbenzene	ND		ug/kg	3.5	3.5	1
p-Ethyltoluene	ND		ug/kg	3.5	0.21	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.14	1
Ethyl ether	ND		ug/kg	4.4	0.23	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	0.34	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	125		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	111		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 14:47
 Analyst: KD
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.98	0.30	1
Chlorobenzene	ND		ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.34	1
Bromodichloromethane	ND		ug/kg	0.98	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.98	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.29	1
Benzene	ND		ug/kg	0.98	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.98	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.24	1
Dibromomethane	ND		ug/kg	9.8	0.24	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.49	1
Acetone	ND		ug/kg	9.8	2.2	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.68	1
Vinyl acetate	ND		ug/kg	9.8	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.8	0.17	1
2-Hexanone	ND		ug/kg	9.8	0.66	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.20	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.98	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.22	1
n-Butylbenzene	ND		ug/kg	0.98	0.22	1
sec-Butylbenzene	ND		ug/kg	0.98	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.98	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.20	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.8	0.50	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
Client ID: SB06_0-2
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	1.3	J	ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	2.5	J	ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	0.62	J	ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	0.36	J	ug/kg	3.9	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	127		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	111		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 15:13
 Analyst: KD
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.27	1
Chloroform	ND		ug/kg	1.5	0.37	1
Carbon tetrachloride	ND		ug/kg	0.99	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.5	0.22	1
Dibromochloromethane	ND		ug/kg	0.99	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.99	0.30	1
Chlorobenzene	ND		ug/kg	0.99	0.34	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.35	1
Bromodichloromethane	ND		ug/kg	0.99	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.99	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.99	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.99	0.20	1
1,1-Dichloropropene	ND		ug/kg	5.0	0.32	1
Bromoform	ND		ug/kg	4.0	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.99	0.30	1
Benzene	ND		ug/kg	0.99	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.99	0.17	1
Chloromethane	ND		ug/kg	5.0	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.37	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10

Date Collected: 06/01/18 12:08

Client ID: SB06_6-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.99	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.35	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.99	0.24	1
Dibromomethane	ND		ug/kg	9.9	0.24	1
Styrene	ND		ug/kg	2.0	0.40	1
Dichlorodifluoromethane	ND		ug/kg	9.9	0.50	1
Acetone	61		ug/kg	9.9	2.3	1
Carbon disulfide	ND		ug/kg	9.9	1.1	1
2-Butanone	ND		ug/kg	9.9	0.68	1
Vinyl acetate	ND		ug/kg	9.9	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.9	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.9	0.18	1
2-Hexanone	ND		ug/kg	9.9	0.66	1
Bromochloromethane	ND		ug/kg	5.0	0.35	1
2,2-Dichloropropane	ND		ug/kg	5.0	0.44	1
1,2-Dibromoethane	ND		ug/kg	4.0	0.20	1
1,3-Dichloropropane	ND		ug/kg	5.0	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.99	0.31	1
Bromobenzene	ND		ug/kg	5.0	0.22	1
n-Butylbenzene	ND		ug/kg	0.99	0.22	1
sec-Butylbenzene	ND		ug/kg	0.99	0.21	1
tert-Butylbenzene	ND		ug/kg	5.0	0.24	1
o-Chlorotoluene	ND		ug/kg	5.0	0.22	1
p-Chlorotoluene	ND		ug/kg	5.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.39	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.34	1
Isopropylbenzene	ND		ug/kg	0.99	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.99	0.20	1
Naphthalene	1.7	J	ug/kg	5.0	0.14	1
Acrylonitrile	ND		ug/kg	9.9	0.51	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.99	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.21	1
1,3,5-Trimethylbenzene	1.0	J	ug/kg	5.0	0.16	1
1,2,4-Trimethylbenzene	3.1	J	ug/kg	5.0	0.18	1
1,4-Dioxane	ND		ug/kg	40	14.	1
p-Diethylbenzene	ND		ug/kg	4.0	4.0	1
p-Ethyltoluene	0.55	J	ug/kg	4.0	0.23	1
1,2,4,5-Tetramethylbenzene	0.52	J	ug/kg	4.0	0.15	1
Ethyl ether	ND		ug/kg	5.0	0.26	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	132	Q	70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	108		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 15:39
 Analyst: KD
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	9.8	1.6	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.26	1
Chloroform	ND		ug/kg	1.5	0.36	1
Carbon tetrachloride	ND		ug/kg	0.98	0.34	1
1,2-Dichloropropane	ND		ug/kg	3.4	0.22	1
Dibromochloromethane	ND		ug/kg	0.98	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31	1
Tetrachloroethene	ND		ug/kg	0.98	0.30	1
Chlorobenzene	ND		ug/kg	0.98	0.34	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.41	1
1,2-Dichloroethane	ND		ug/kg	0.98	0.24	1
1,1,1-Trichloroethane	ND		ug/kg	0.98	0.34	1
Bromodichloromethane	ND		ug/kg	0.98	0.30	1
trans-1,3-Dichloropropene	ND		ug/kg	0.98	0.20	1
cis-1,3-Dichloropropene	ND		ug/kg	0.98	0.23	1
1,3-Dichloropropene, Total	ND		ug/kg	0.98	0.20	1
1,1-Dichloropropene	ND		ug/kg	4.9	0.32	1
Bromoform	ND		ug/kg	3.9	0.23	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.98	0.29	1
Benzene	ND		ug/kg	0.98	0.19	1
Toluene	ND		ug/kg	1.5	0.19	1
Ethylbenzene	ND		ug/kg	0.98	0.17	1
Chloromethane	ND		ug/kg	4.9	0.43	1
Bromomethane	ND		ug/kg	2.0	0.33	1
Vinyl chloride	ND		ug/kg	2.0	0.31	1
Chloroethane	ND		ug/kg	2.0	0.31	1
1,1-Dichloroethene	ND		ug/kg	0.98	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	0.98	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.18	1
Methyl tert butyl ether	1.4	J	ug/kg	2.0	0.15	1
p/m-Xylene	ND		ug/kg	2.0	0.34	1
o-Xylene	ND		ug/kg	2.0	0.33	1
Xylenes, Total	ND		ug/kg	2.0	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	0.98	0.34	1
1,2-Dichloroethene, Total	ND		ug/kg	0.98	0.24	1
Dibromomethane	ND		ug/kg	9.8	0.23	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	9.8	0.49	1
Acetone	ND		ug/kg	9.8	2.2	1
Carbon disulfide	ND		ug/kg	9.8	1.1	1
2-Butanone	ND		ug/kg	9.8	0.68	1
Vinyl acetate	ND		ug/kg	9.8	0.15	1
4-Methyl-2-pentanone	ND		ug/kg	9.8	0.24	1
1,2,3-Trichloropropane	ND		ug/kg	9.8	0.17	1
2-Hexanone	ND		ug/kg	9.8	0.65	1
Bromochloromethane	ND		ug/kg	4.9	0.35	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.44	1
1,2-Dibromoethane	ND		ug/kg	3.9	0.20	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.98	0.31	1
Bromobenzene	ND		ug/kg	4.9	0.21	1
n-Butylbenzene	ND		ug/kg	0.98	0.22	1
sec-Butylbenzene	ND		ug/kg	0.98	0.21	1
tert-Butylbenzene	ND		ug/kg	4.9	0.24	1
o-Chlorotoluene	ND		ug/kg	4.9	0.22	1
p-Chlorotoluene	ND		ug/kg	4.9	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.9	0.39	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.34	1
Isopropylbenzene	ND		ug/kg	0.98	0.19	1
p-Isopropyltoluene	ND		ug/kg	0.98	0.20	1
Naphthalene	ND		ug/kg	4.9	0.14	1
Acrylonitrile	ND		ug/kg	9.8	0.50	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
Client ID: SB06_12-14
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	0.98	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.25	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.21	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.9	0.16	1
1,2,4-Trimethylbenzene	0.22	J	ug/kg	4.9	0.18	1
1,4-Dioxane	ND		ug/kg	39	14.	1
p-Diethylbenzene	ND		ug/kg	3.9	3.9	1
p-Ethyltoluene	ND		ug/kg	3.9	0.23	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.9	0.15	1
Ethyl ether	ND		ug/kg	4.9	0.25	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.9	0.38	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	108		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 16:05
 Analyst: KD
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	12	2.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.32	1
Chloroform	ND		ug/kg	1.8	0.44	1
Carbon tetrachloride	ND		ug/kg	1.2	0.41	1
1,2-Dichloropropane	ND		ug/kg	4.2	0.27	1
Dibromochloromethane	ND		ug/kg	1.2	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.37	1
Tetrachloroethene	ND		ug/kg	1.2	0.36	1
Chlorobenzene	ND		ug/kg	1.2	0.42	1
Trichlorofluoromethane	ND		ug/kg	6.0	0.50	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.42	1
Bromodichloromethane	ND		ug/kg	1.2	0.37	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.25	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.25	1
1,1-Dichloropropene	ND		ug/kg	6.0	0.39	1
Bromoform	ND		ug/kg	4.8	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.36	1
Benzene	ND		ug/kg	1.2	0.23	1
Toluene	ND		ug/kg	1.8	0.23	1
Ethylbenzene	ND		ug/kg	1.2	0.20	1
Chloromethane	ND		ug/kg	6.0	0.52	1
Bromomethane	ND		ug/kg	2.4	0.40	1
Vinyl chloride	ND		ug/kg	2.4	0.38	1
Chloroethane	ND		ug/kg	2.4	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.44	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.29	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
Client ID: SBDUP02_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Trichloroethene	ND		ug/kg	1.2	0.36	1
1,2-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
1,3-Dichlorobenzene	ND		ug/kg	6.0	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	6.0	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.18	1
p/m-Xylene	ND		ug/kg	2.4	0.42	1
o-Xylene	ND		ug/kg	2.4	0.40	1
Xylenes, Total	ND		ug/kg	2.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.41	1
1,2-Dichloroethene, Total	ND		ug/kg	1.2	0.29	1
Dibromomethane	ND		ug/kg	12	0.28	1
Styrene	ND		ug/kg	2.4	0.48	1
Dichlorodifluoromethane	ND		ug/kg	12	0.60	1
Acetone	7.4	J	ug/kg	12	2.7	1
Carbon disulfide	ND		ug/kg	12	1.3	1
2-Butanone	ND		ug/kg	12	0.82	1
Vinyl acetate	ND		ug/kg	12	0.18	1
4-Methyl-2-pentanone	ND		ug/kg	12	0.29	1
1,2,3-Trichloropropane	ND		ug/kg	12	0.21	1
2-Hexanone	ND		ug/kg	12	0.80	1
Bromochloromethane	ND		ug/kg	6.0	0.43	1
2,2-Dichloropropane	ND		ug/kg	6.0	0.54	1
1,2-Dibromoethane	ND		ug/kg	4.8	0.24	1
1,3-Dichloropropane	ND		ug/kg	6.0	0.22	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.38	1
Bromobenzene	ND		ug/kg	6.0	0.26	1
n-Butylbenzene	ND		ug/kg	1.2	0.27	1
sec-Butylbenzene	ND		ug/kg	1.2	0.26	1
tert-Butylbenzene	ND		ug/kg	6.0	0.30	1
o-Chlorotoluene	ND		ug/kg	6.0	0.26	1
p-Chlorotoluene	ND		ug/kg	6.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	0.47	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.42	1
Isopropylbenzene	ND		ug/kg	1.2	0.23	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.24	1
Naphthalene	ND		ug/kg	6.0	0.16	1
Acrylonitrile	ND		ug/kg	12	0.61	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
Client ID: SBDUP02_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.26	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.0	0.30	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.0	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	6.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	6.0	0.22	1
1,4-Dioxane	ND		ug/kg	48	17.	1
p-Diethylbenzene	ND		ug/kg	4.8	4.8	1
p-Ethyltoluene	ND		ug/kg	4.8	0.28	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.8	0.19	1
Ethyl ether	ND		ug/kg	6.0	0.31	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	0.47	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	109		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 11:57
 Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	46		ug/l	0.50	0.16	1
Toluene	4.0		ug/l	2.5	0.70	1
Ethylbenzene	13		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
Client ID: TW03_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	2.5		ug/l	2.5	0.70	1
p/m-Xylene	5.0		ug/l	2.5	0.70	1
o-Xylene	1.9	J	ug/l	2.5	0.70	1
Xylenes, Total	6.9	J	ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	7.5		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	11		ug/l	2.5	0.70	1
sec-Butylbenzene	8.5		ug/l	2.5	0.70	1
tert-Butylbenzene	0.70	J	ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	34		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	32		ug/l	2.5	0.70	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
Client ID: TW03_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
n-Propylbenzene	79		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	1.0	J	ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	49		ug/l	2.5	0.70	1
1,4-Dioxane	ND		ug/l	250	61.	1
p-Diethylbenzene	14		ug/l	2.0	0.70	1
p-Ethyltoluene	5.4		ug/l	2.0	0.70	1
1,2,4,5-Tetramethylbenzene	55		ug/l	2.0	0.54	1
Ethyl ether	ND		ug/l	2.5	0.70	1
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	133	Q	70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	94		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/06/18 23:43
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.73	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.88		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	0.95	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.8	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.8	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
Client ID: TW05_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	99		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 00:11
 Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	0.70	J	ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	0.93		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	0.98	J	ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	1.9	J	ug/l	2.5	0.70	1
1,2-Dichloroethene, Total	1.9	J	ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Acrylonitrile	ND		ug/l	5.0	1.5	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
Vinyl acetate	ND		ug/l	5.0	1.0	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
Client ID: TWDUP01_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	98		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-16
 Client ID: GWTB01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Water
 Analytical Method: 1,8260C
 Analytical Date: 06/07/18 00:38
 Analyst: NLK

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

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-16
 Client ID: GWTB01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

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

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-16
Client ID: GWTB01_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	98		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 20:27
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,14-16 Batch: WG1123465-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 20:27
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,14-16 Batch: WG1123465-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/06/18 20:27
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01,14-16 Batch: WG1123465-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	98		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1123557-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
1,3-Dichloropropene, Total	ND		ug/l	0.50	0.14
1,1-Dichloropropene	ND		ug/l	2.5	0.70
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1123557-5					
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
Xylenes, Total	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
1,2-Dichloroethene, Total	ND		ug/l	2.5	0.70
Dibromomethane	ND		ug/l	5.0	1.0
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70
Acrylonitrile	ND		ug/l	5.0	1.5
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
Vinyl acetate	ND		ug/l	5.0	1.0
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
Bromochloromethane	ND		ug/l	2.5	0.70
2,2-Dichloropropane	ND		ug/l	2.5	0.70
1,2-Dibromoethane	ND		ug/l	2.0	0.65
1,3-Dichloropropane	ND		ug/l	2.5	0.70
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70
Bromobenzene	ND		ug/l	2.5	0.70
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 11:28
Analyst: PD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 13 Batch: WG1123557-5					
o-Chlorotoluene	ND		ug/l	2.5	0.70
p-Chlorotoluene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Hexachlorobutadiene	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
1,4-Dioxane	ND		ug/l	250	61.
p-Diethylbenzene	ND		ug/l	2.0	0.70
p-Ethyltoluene	ND		ug/l	2.0	0.70
1,2,4,5-Tetramethylbenzene	ND		ug/l	2.0	0.54
Ethyl ether	ND		ug/l	2.5	0.70
trans-1,4-Dichloro-2-butene	ND		ug/l	2.5	0.70

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	99		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 08:18
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-12 Batch: WG1123639-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	0.45	J	ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/07/18 08:18
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-12 Batch: WG1123639-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/07/18 08:18
Analyst: KD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 04-12 Batch: WG1123639-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/08/18 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG1123948-5					
Methylene chloride	ND		ug/kg	10	1.6
1,1-Dichloroethane	ND		ug/kg	1.5	0.27
Chloroform	ND		ug/kg	1.5	0.37
Carbon tetrachloride	ND		ug/kg	1.0	0.34
1,2-Dichloropropane	ND		ug/kg	3.5	0.23
Dibromochloromethane	ND		ug/kg	1.0	0.18
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.31
Tetrachloroethene	ND		ug/kg	1.0	0.30
Chlorobenzene	ND		ug/kg	1.0	0.35
Trichlorofluoromethane	ND		ug/kg	5.0	0.42
1,2-Dichloroethane	ND		ug/kg	1.0	0.25
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.35
Bromodichloromethane	ND		ug/kg	1.0	0.31
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.21
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.23
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.21
1,1-Dichloropropene	ND		ug/kg	5.0	0.33
Bromoform	ND		ug/kg	4.0	0.24
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.30
Benzene	ND		ug/kg	1.0	0.19
Toluene	ND		ug/kg	1.5	0.20
Ethylbenzene	ND		ug/kg	1.0	0.17
Chloromethane	ND		ug/kg	5.0	0.44
Bromomethane	ND		ug/kg	2.0	0.34
Vinyl chloride	ND		ug/kg	2.0	0.32
Chloroethane	ND		ug/kg	2.0	0.32
1,1-Dichloroethene	ND		ug/kg	1.0	0.37
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.24
Trichloroethene	ND		ug/kg	1.0	0.30

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/08/18 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG1123948-5					
1,2-Dichlorobenzene	ND		ug/kg	5.0	0.18
1,3-Dichlorobenzene	ND		ug/kg	5.0	0.22
1,4-Dichlorobenzene	ND		ug/kg	5.0	0.18
Methyl tert butyl ether	ND		ug/kg	2.0	0.15
p/m-Xylene	ND		ug/kg	2.0	0.35
o-Xylene	ND		ug/kg	2.0	0.34
Xylenes, Total	ND		ug/kg	2.0	0.34
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.34
1,2-Dichloroethene, Total	ND		ug/kg	1.0	0.24
Dibromomethane	ND		ug/kg	10	0.24
Styrene	ND		ug/kg	2.0	0.40
Dichlorodifluoromethane	ND		ug/kg	10	0.50
Acetone	ND		ug/kg	10	2.3
Carbon disulfide	ND		ug/kg	10	1.1
2-Butanone	ND		ug/kg	10	0.69
Vinyl acetate	ND		ug/kg	10	0.15
4-Methyl-2-pentanone	ND		ug/kg	10	0.24
1,2,3-Trichloropropane	ND		ug/kg	10	0.18
2-Hexanone	ND		ug/kg	10	0.67
Bromochloromethane	ND		ug/kg	5.0	0.36
2,2-Dichloropropane	ND		ug/kg	5.0	0.45
1,2-Dibromoethane	ND		ug/kg	4.0	0.20
1,3-Dichloropropane	ND		ug/kg	5.0	0.18
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.32
Bromobenzene	ND		ug/kg	5.0	0.22
n-Butylbenzene	ND		ug/kg	1.0	0.23
sec-Butylbenzene	ND		ug/kg	1.0	0.22
tert-Butylbenzene	ND		ug/kg	5.0	0.25
o-Chlorotoluene	ND		ug/kg	5.0	0.22

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
Analytical Date: 06/08/18 08:12
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 02-03 Batch: WG1123948-5					
p-Chlorotoluene	ND		ug/kg	5.0	0.18
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.0	0.40
Hexachlorobutadiene	ND		ug/kg	5.0	0.35
Isopropylbenzene	ND		ug/kg	1.0	0.19
p-Isopropyltoluene	ND		ug/kg	1.0	0.20
Naphthalene	ND		ug/kg	5.0	0.14
Acrylonitrile	ND		ug/kg	10	0.51
n-Propylbenzene	ND		ug/kg	1.0	0.22
1,2,3-Trichlorobenzene	ND		ug/kg	5.0	0.25
1,2,4-Trichlorobenzene	ND		ug/kg	5.0	0.22
1,3,5-Trimethylbenzene	ND		ug/kg	5.0	0.16
1,2,4-Trimethylbenzene	ND		ug/kg	5.0	0.19
1,4-Dioxane	ND		ug/kg	40	14.
p-Diethylbenzene	ND		ug/kg	4.0	4.0
p-Ethyltoluene	ND		ug/kg	4.0	0.23
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.16
Ethyl ether	ND		ug/kg	5.0	0.26
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	0.39

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	107		70-130

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/11/18 08:36
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1124649-5					
Methylene chloride	ND		ug/kg	500	82.
1,1-Dichloroethane	ND		ug/kg	75	14.
Chloroform	ND		ug/kg	75	18.
Carbon tetrachloride	ND		ug/kg	50	17.
1,2-Dichloropropane	ND		ug/kg	180	11.
Dibromochloromethane	ND		ug/kg	50	8.8
2-Chloroethylvinyl ether	ND		ug/kg	1000	31.
1,1,2-Trichloroethane	ND		ug/kg	75	16.
Tetrachloroethene	ND		ug/kg	50	15.
Chlorobenzene	ND		ug/kg	50	17.
Trichlorofluoromethane	ND		ug/kg	250	21.
1,2-Dichloroethane	ND		ug/kg	50	12.
1,1,1-Trichloroethane	ND		ug/kg	50	18.
Bromodichloromethane	ND		ug/kg	50	15.
trans-1,3-Dichloropropene	ND		ug/kg	50	10.
cis-1,3-Dichloropropene	ND		ug/kg	50	12.
1,3-Dichloropropene, Total	ND		ug/kg	50	10.
1,1-Dichloropropene	ND		ug/kg	250	16.
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	50	15.
Benzene	ND		ug/kg	50	9.6
Toluene	40	J	ug/kg	75	9.8
Ethylbenzene	ND		ug/kg	50	8.5
Chloromethane	ND		ug/kg	250	22.
Bromomethane	ND		ug/kg	100	17.
Vinyl chloride	ND		ug/kg	100	16.
Chloroethane	ND		ug/kg	100	16.
1,1-Dichloroethene	ND		ug/kg	50	19.
trans-1,2-Dichloroethene	ND		ug/kg	75	12.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/11/18 08:36
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1124649-5					
Trichloroethene	ND		ug/kg	50	15.
1,2-Dichlorobenzene	ND		ug/kg	250	9.1
1,3-Dichlorobenzene	ND		ug/kg	250	11.
1,4-Dichlorobenzene	ND		ug/kg	250	9.1
Methyl tert butyl ether	ND		ug/kg	100	7.6
p/m-Xylene	ND		ug/kg	100	18.
o-Xylene	ND		ug/kg	100	17.
Xylene (Total)	ND		ug/kg	100	17.
cis-1,2-Dichloroethene	ND		ug/kg	50	17.
1,2-Dichloroethene (total)	ND		ug/kg	50	12.
Dibromomethane	ND		ug/kg	500	12.
Styrene	ND		ug/kg	100	20.
Dichlorodifluoromethane	ND		ug/kg	500	25.
Acetone	ND		ug/kg	500	110
Carbon disulfide	ND		ug/kg	500	55.
2-Butanone	ND		ug/kg	500	34.
Vinyl acetate	ND		ug/kg	500	7.6
4-Methyl-2-pentanone	ND		ug/kg	500	12.
1,2,3-Trichloropropane	ND		ug/kg	500	8.8
2-Hexanone	ND		ug/kg	500	33.
Bromochloromethane	ND		ug/kg	250	18.
2,2-Dichloropropane	ND		ug/kg	250	22.
1,2-Dibromoethane	ND		ug/kg	200	10.
1,3-Dichloropropane	ND		ug/kg	250	9.2
1,1,1,2-Tetrachloroethane	ND		ug/kg	50	16.
Bromobenzene	ND		ug/kg	250	11.
n-Butylbenzene	ND		ug/kg	50	11.
sec-Butylbenzene	ND		ug/kg	50	11.
tert-Butylbenzene	ND		ug/kg	250	12.

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Project Number: 170515401

Lab Number: L1820339
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Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 06/11/18 08:36
Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1124649-5					
o-Chlorotoluene	ND		ug/kg	250	11.
p-Chlorotoluene	ND		ug/kg	250	9.2
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	20.
Hexachlorobutadiene	ND		ug/kg	250	17.
Isopropylbenzene	ND		ug/kg	50	9.7
p-Isopropyltoluene	ND		ug/kg	50	10.
Naphthalene	ND		ug/kg	250	6.9
Acrylonitrile	ND		ug/kg	500	26.
Isopropyl Ether	ND		ug/kg	200	14.
tert-Butyl Alcohol	ND		ug/kg	3000	150
n-Propylbenzene	ND		ug/kg	50	11.
1,2,3-Trichlorobenzene	ND		ug/kg	250	12.
1,2,4-Trichlorobenzene	ND		ug/kg	250	11.
1,3,5-Trimethylbenzene	ND		ug/kg	250	8.0
1,2,4-Trimethylbenzene	ND		ug/kg	250	9.3
Methyl Acetate	ND		ug/kg	1000	23.
Ethyl Acetate	ND		ug/kg	1000	100
Acrolein	ND		ug/kg	1200	400
Cyclohexane	ND		ug/kg	1000	22.
1,4-Dioxane	ND		ug/kg	2000	720
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		ug/kg	1000	26.
1,4-Diethylbenzene	ND		ug/kg	200	200
4-Ethyltoluene	ND		ug/kg	200	12.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	200	7.8
Tetrahydrofuran	ND		ug/kg	1000	50.
Ethyl ether	ND		ug/kg	250	13.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	20.
Methyl cyclohexane	ND		ug/kg	200	12.
Ethyl-Tert-Butyl-Ether	ND		ug/kg	200	8.9

Project Name: 538-540 W 29TH ST.

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**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8260C
 Analytical Date: 06/11/18 08:36
 Analyst: MV

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 03 Batch: WG1124649-5					
Tertiary-Amyl Methyl Ether	ND		ug/kg	200	12.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,14-16 Batch: WG1123465-3 WG1123465-4								
Methylene chloride	83		84		70-130	1		20
1,1-Dichloroethane	81		83		70-130	2		20
Chloroform	81		83		70-130	2		20
Carbon tetrachloride	83		85		63-132	2		20
1,2-Dichloropropane	81		83		70-130	2		20
Dibromochloromethane	90		92		63-130	2		20
1,1,2-Trichloroethane	91		96		70-130	5		20
Tetrachloroethene	94		93		70-130	1		20
Chlorobenzene	89		90		75-130	1		20
Trichlorofluoromethane	85		84		62-150	1		20
1,2-Dichloroethane	78		82		70-130	5		20
1,1,1-Trichloroethane	83		85		67-130	2		20
Bromodichloromethane	80		83		67-130	4		20
trans-1,3-Dichloropropene	93		95		70-130	2		20
cis-1,3-Dichloropropene	83		84		70-130	1		20
1,1-Dichloropropene	84		86		70-130	2		20
Bromoform	98		100		54-136	2		20
1,1,2,2-Tetrachloroethane	95		99		67-130	4		20
Benzene	88		91		70-130	3		20
Toluene	89		91		70-130	2		20
Ethylbenzene	91		93		70-130	2		20
Chloromethane	86		90		64-130	5		20
Bromomethane	89		88		39-139	1		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,14-16 Batch: WG1123465-3 WG1123465-4								
Vinyl chloride	85		84		55-140	1		20
Chloroethane	86		90		55-138	5		20
1,1-Dichloroethene	88		89		61-145	1		20
trans-1,2-Dichloroethene	86		88		70-130	2		20
Trichloroethene	81		84		70-130	4		20
1,2-Dichlorobenzene	94		96		70-130	2		20
1,3-Dichlorobenzene	95		96		70-130	1		20
1,4-Dichlorobenzene	94		96		70-130	2		20
Methyl tert butyl ether	84		88		63-130	5		20
p/m-Xylene	95		95		70-130	0		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	84		86		70-130	2		20
Dibromomethane	83		87		70-130	5		20
1,2,3-Trichloropropane	94		98		64-130	4		20
Acrylonitrile	82		88		70-130	7		20
Styrene	95		100		70-130	5		20
Dichlorodifluoromethane	84		83		36-147	1		20
Acetone	78		81		58-148	4		20
Carbon disulfide	85		85		51-130	0		20
2-Butanone	78		81		63-138	4		20
Vinyl acetate	81		85		70-130	5		20
4-Methyl-2-pentanone	84		89		59-130	6		20
2-Hexanone	82		88		57-130	7		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,14-16 Batch: WG1123465-3 WG1123465-4								
Bromochloromethane	89		91		70-130	2		20
2,2-Dichloropropane	91		92		63-133	1		20
1,2-Dibromoethane	92		95		70-130	3		20
1,3-Dichloropropane	90		93		70-130	3		20
1,1,1,2-Tetrachloroethane	91		93		64-130	2		20
Bromobenzene	94		95		70-130	1		20
n-Butylbenzene	95		97		53-136	2		20
sec-Butylbenzene	96		97		70-130	1		20
tert-Butylbenzene	95		97		70-130	2		20
o-Chlorotoluene	80		90		70-130	12		20
p-Chlorotoluene	95		95		70-130	0		20
1,2-Dibromo-3-chloropropane	94		97		41-144	3		20
Hexachlorobutadiene	91		92		63-130	1		20
Isopropylbenzene	95		96		70-130	1		20
p-Isopropyltoluene	97		98		70-130	1		20
Naphthalene	91		97		70-130	6		20
n-Propylbenzene	95		96		69-130	1		20
1,2,3-Trichlorobenzene	91		94		70-130	3		20
1,2,4-Trichlorobenzene	92		93		70-130	1		20
1,3,5-Trimethylbenzene	97		97		64-130	0		20
1,2,4-Trimethylbenzene	92		93		70-130	1		20
1,4-Dioxane	66		72		56-162	9		20
p-Diethylbenzene	95		97		70-130	2		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,14-16 Batch: WG1123465-3 WG1123465-4								
p-Ethyltoluene	98		98		70-130	0		20
1,2,4,5-Tetramethylbenzene	95		96		70-130	1		20
Ethyl ether	84		87		59-134	4		20
trans-1,4-Dichloro-2-butene	85		89		70-130	5		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	96		98		70-130
Toluene-d8	107		105		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	97		98		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

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Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1123557-3 WG1123557-4								
Methylene chloride	89		88		70-130	1		20
1,1-Dichloroethane	98		96		70-130	2		20
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	110		110		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	110		110		63-130	0		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	95		95		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	100		98		62-150	2		20
1,2-Dichloroethane	120		120		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	110		110		67-130	0		20
trans-1,3-Dichloropropene	110		110		70-130	0		20
cis-1,3-Dichloropropene	110		110		70-130	0		20
1,1-Dichloropropene	100		100		70-130	0		20
Bromoform	110		100		54-136	10		20
1,1,1,2-Tetrachloroethane	110		110		67-130	0		20
Benzene	100		100		70-130	0		20
Toluene	97		97		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	71		73		64-130	3		20
Bromomethane	70		68		39-139	3		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1123557-3 WG1123557-4								
Vinyl chloride	72		69		55-140	4		20
Chloroethane	58		57		55-138	2		20
1,1-Dichloroethene	88		86		61-145	2		20
trans-1,2-Dichloroethene	95		92		70-130	3		20
Trichloroethene	100		100		70-130	0		20
1,2-Dichlorobenzene	110		100		70-130	10		20
1,3-Dichlorobenzene	100		100		70-130	0		20
1,4-Dichlorobenzene	100		100		70-130	0		20
Methyl tert butyl ether	110		110		63-130	0		20
p/m-Xylene	100		95		70-130	5		20
o-Xylene	100		100		70-130	0		20
cis-1,2-Dichloroethene	97		96		70-130	1		20
Dibromomethane	120		110		70-130	9		20
1,2,3-Trichloropropane	120		120		64-130	0		20
Acrylonitrile	100		97		70-130	3		20
Styrene	100		100		70-130	0		20
Dichlorodifluoromethane	89		85		36-147	5		20
Acetone	110		100		58-148	10		20
Carbon disulfide	85		83		51-130	2		20
2-Butanone	94		87		63-138	8		20
Vinyl acetate	100		98		70-130	2		20
4-Methyl-2-pentanone	100		100		59-130	0		20
2-Hexanone	120		110		57-130	9		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1123557-3 WG1123557-4								
Bromochloromethane	100		98		70-130	2		20
2,2-Dichloropropane	110		110		63-133	0		20
1,2-Dibromoethane	110		100		70-130	10		20
1,3-Dichloropropane	110		110		70-130	0		20
1,1,1,2-Tetrachloroethane	110		110		64-130	0		20
Bromobenzene	110		100		70-130	10		20
n-Butylbenzene	100		100		53-136	0		20
sec-Butylbenzene	100		100		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
o-Chlorotoluene	100		110		70-130	10		20
p-Chlorotoluene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	100		96		41-144	4		20
Hexachlorobutadiene	120		120		63-130	0		20
Isopropylbenzene	110		110		70-130	0		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	85		79		70-130	7		20
n-Propylbenzene	100		100		69-130	0		20
1,2,3-Trichlorobenzene	79		74		70-130	7		20
1,2,4-Trichlorobenzene	93		90		70-130	3		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		110		70-130	0		20
1,4-Dioxane	132		114		56-162	15		20
p-Diethylbenzene	110		110		70-130	0		20

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 13 Batch: WG1123557-3 WG1123557-4								
p-Ethyltoluene	110		110		70-130	0		20
1,2,4,5-Tetramethylbenzene	110		110		70-130	0		20
Ethyl ether	96		92		59-134	4		20
trans-1,4-Dichloro-2-butene	140	Q	130		70-130	7		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	128		121		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	113		113		70-130
Dibromofluoromethane	101		101		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-12 Batch: WG1123639-3 WG1123639-4								
Methylene chloride	104		103		70-130	1		30
1,1-Dichloroethane	115		115		70-130	0		30
Chloroform	120		121		70-130	1		30
Carbon tetrachloride	138	Q	141	Q	70-130	2		30
1,2-Dichloropropane	105		106		70-130	1		30
Dibromochloromethane	116		118		70-130	2		30
1,1,2-Trichloroethane	99		99		70-130	0		30
Tetrachloroethene	122		122		70-130	0		30
Chlorobenzene	112		114		70-130	2		30
Trichlorofluoromethane	146	Q	147	Q	70-139	1		30
1,2-Dichloroethane	123		125		70-130	2		30
1,1,1-Trichloroethane	132	Q	134	Q	70-130	2		30
Bromodichloromethane	120		123		70-130	2		30
trans-1,3-Dichloropropene	112		111		70-130	1		30
cis-1,3-Dichloropropene	112		114		70-130	2		30
1,1-Dichloropropene	122		123		70-130	1		30
Bromoform	111		111		70-130	0		30
1,1,2,2-Tetrachloroethane	103		105		70-130	2		30
Benzene	109		109		70-130	0		30
Toluene	107		106		70-130	1		30
Ethylbenzene	111		110		70-130	1		30
Chloromethane	118		116		52-130	2		30
Bromomethane	134		130		57-147	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-12 Batch: WG1123639-3 WG1123639-4								
Vinyl chloride	124		123		67-130	1		30
Chloroethane	125		125		50-151	0		30
1,1-Dichloroethene	114		117		65-135	3		30
trans-1,2-Dichloroethene	116		114		70-130	2		30
Trichloroethene	118		118		70-130	0		30
1,2-Dichlorobenzene	108		112		70-130	4		30
1,3-Dichlorobenzene	111		112		70-130	1		30
1,4-Dichlorobenzene	109		110		70-130	1		30
Methyl tert butyl ether	107		109		66-130	2		30
p/m-Xylene	110		110		70-130	0		30
o-Xylene	111		110		70-130	1		30
cis-1,2-Dichloroethene	117		115		70-130	2		30
Dibromomethane	112		116		70-130	4		30
Styrene	108		109		70-130	1		30
Dichlorodifluoromethane	137		139		30-146	1		30
Acetone	103		96		54-140	7		30
Carbon disulfide	108		107		59-130	1		30
2-Butanone	91		103		70-130	12		30
Vinyl acetate	114		114		70-130	0		30
4-Methyl-2-pentanone	97		95		70-130	2		30
1,2,3-Trichloropropane	105		111		68-130	6		30
2-Hexanone	99		101		70-130	2		30
Bromochloromethane	118		117		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-12 Batch: WG1123639-3 WG1123639-4									
2,2-Dichloropropane	126		123		70-130		2		30
1,2-Dibromoethane	112		111		70-130		1		30
1,3-Dichloropropane	109		109		69-130		0		30
1,1,1,2-Tetrachloroethane	121		120		70-130		1		30
Bromobenzene	109		112		70-130		3		30
n-Butylbenzene	110		111		70-130		1		30
sec-Butylbenzene	111		111		70-130		0		30
tert-Butylbenzene	111		113		70-130		2		30
o-Chlorotoluene	113		114		70-130		1		30
p-Chlorotoluene	107		110		70-130		3		30
1,2-Dibromo-3-chloropropane	102		110		68-130		8		30
Hexachlorobutadiene	115		119		67-130		3		30
Isopropylbenzene	111		112		70-130		1		30
p-Isopropyltoluene	111		113		70-130		2		30
Naphthalene	104		105		70-130		1		30
Acrylonitrile	109		110		70-130		1		30
n-Propylbenzene	110		110		70-130		0		30
1,2,3-Trichlorobenzene	108		111		70-130		3		30
1,2,4-Trichlorobenzene	113		114		70-130		1		30
1,3,5-Trimethylbenzene	109		110		70-130		1		30
1,2,4-Trimethylbenzene	109		110		70-130		1		30
1,4-Dioxane	90		95		65-136		5		30
p-Diethylbenzene	112		114		70-130		2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 04-12 Batch: WG1123639-3 WG1123639-4								
p-Ethyltoluene	113		114		70-130	1		30
1,2,4,5-Tetramethylbenzene	110		111		70-130	1		30
Ethyl ether	109		111		67-130	2		30
trans-1,4-Dichloro-2-butene	107		107		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	120		120		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	110		110		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1123948-3 WG1123948-4								
Methylene chloride	96		94		70-130	2		30
1,1-Dichloroethane	101		91		70-130	10		30
Chloroform	102		95		70-130	7		30
Carbon tetrachloride	121		106		70-130	13		30
1,2-Dichloropropane	88		92		70-130	4		30
Dibromochloromethane	110		114		70-130	4		30
1,1,2-Trichloroethane	98		101		70-130	3		30
Tetrachloroethene	99		103		70-130	4		30
Chlorobenzene	101		99		70-130	2		30
Trichlorofluoromethane	107		98		70-139	9		30
1,2-Dichloroethane	108		99		70-130	9		30
1,1,1-Trichloroethane	113		102		70-130	10		30
Bromodichloromethane	100		104		70-130	4		30
trans-1,3-Dichloropropene	100		106		70-130	6		30
cis-1,3-Dichloropropene	94		95		70-130	1		30
1,1-Dichloropropene	99		87		70-130	13		30
Bromoform	100		103		70-130	3		30
1,1,2,2-Tetrachloroethane	95		94		70-130	1		30
Benzene	96		86		70-130	11		30
Toluene	90		96		70-130	6		30
Ethylbenzene	97		95		70-130	2		30
Chloromethane	68		64		52-130	6		30
Bromomethane	97		91		57-147	6		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1123948-3 WG1123948-4								
Vinyl chloride	80		74		67-130	8		30
Chloroethane	89		79		50-151	12		30
1,1-Dichloroethene	94		86		65-135	9		30
trans-1,2-Dichloroethene	97		92		70-130	5		30
Trichloroethene	105		102		70-130	3		30
1,2-Dichlorobenzene	100		102		70-130	2		30
1,3-Dichlorobenzene	104		102		70-130	2		30
1,4-Dichlorobenzene	103		100		70-130	3		30
Methyl tert butyl ether	107		99		66-130	8		30
p/m-Xylene	99		97		70-130	2		30
o-Xylene	100		96		70-130	4		30
cis-1,2-Dichloroethene	100		94		70-130	6		30
Dibromomethane	103		102		70-130	1		30
Styrene	98		95		70-130	3		30
Dichlorodifluoromethane	72		67		30-146	7		30
Acetone	100		86		54-140	15		30
Carbon disulfide	75		68		59-130	10		30
2-Butanone	90		81		70-130	11		30
Vinyl acetate	91		81		70-130	12		30
4-Methyl-2-pentanone	92		91		70-130	1		30
1,2,3-Trichloropropane	102		96		68-130	6		30
2-Hexanone	78		73		70-130	7		30
Bromochloromethane	108		101		70-130	7		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1123948-3 WG1123948-4								
2,2-Dichloropropane	106		96		70-130	10		30
1,2-Dibromoethane	108		112		70-130	4		30
1,3-Dichloropropane	96		100		69-130	4		30
1,1,1,2-Tetrachloroethane	108		105		70-130	3		30
Bromobenzene	101		101		70-130	0		30
n-Butylbenzene	101		101		70-130	0		30
sec-Butylbenzene	103		100		70-130	3		30
tert-Butylbenzene	104		100		70-130	4		30
o-Chlorotoluene	102		98		70-130	4		30
p-Chlorotoluene	103		99		70-130	4		30
1,2-Dibromo-3-chloropropane	90		91		68-130	1		30
Hexachlorobutadiene	89		93		67-130	4		30
Isopropylbenzene	93		99		70-130	6		30
p-Isopropyltoluene	104		102		70-130	2		30
Naphthalene	98		101		70-130	3		30
Acrylonitrile	111		93		70-130	18		30
n-Propylbenzene	94		97		70-130	3		30
1,2,3-Trichlorobenzene	97		102		70-130	5		30
1,2,4-Trichlorobenzene	94		99		70-130	5		30
1,3,5-Trimethylbenzene	105		103		70-130	2		30
1,2,4-Trimethylbenzene	104		102		70-130	2		30
1,4-Dioxane	89		84		65-136	6		30
p-Diethylbenzene	100		100		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 02-03 Batch: WG1123948-3 WG1123948-4								
p-Ethyltoluene	99		98		70-130	1		30
1,2,4,5-Tetramethylbenzene	94		100		70-130	6		30
Ethyl ether	104		94		67-130	10		30
trans-1,4-Dichloro-2-butene	108		97		70-130	11		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	108		100		70-130
Toluene-d8	97		108		70-130
4-Bromofluorobenzene	94		100		70-130
Dibromofluoromethane	108		97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1124649-3 WG1124649-4								
Methylene chloride	109		106		70-130	3		30
1,1-Dichloroethane	106		102		70-130	4		30
Chloroform	104		102		70-130	2		30
Carbon tetrachloride	105		101		70-130	4		30
1,2-Dichloropropane	105		103		70-130	2		30
Dibromochloromethane	102		99		70-130	3		30
2-Chloroethylvinyl ether	105		103		70-130	2		30
1,1,2-Trichloroethane	105		103		70-130	2		30
Tetrachloroethene	103		99		70-130	4		30
Chlorobenzene	103		100		70-130	3		30
Trichlorofluoromethane	112		106		70-139	6		30
1,2-Dichloroethane	105		102		70-130	3		30
1,1,1-Trichloroethane	106		102		70-130	4		30
Bromodichloromethane	103		101		70-130	2		30
trans-1,3-Dichloropropene	105		103		70-130	2		30
cis-1,3-Dichloropropene	105		104		70-130	1		30
1,1-Dichloropropene	106		102		70-130	4		30
Bromoform	99		97		70-130	2		30
1,1,2,2-Tetrachloroethane	100		100		70-130	0		30
Benzene	103		100		70-130	3		30
Toluene	106		103		70-130	3		30
Ethylbenzene	105		102		70-130	3		30
Chloromethane	103		100		52-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1124649-3 WG1124649-4								
Bromomethane	116		113		57-147	3		30
Vinyl chloride	106		103		67-130	3		30
Chloroethane	107		102		50-151	5		30
1,1-Dichloroethene	104		102		65-135	2		30
trans-1,2-Dichloroethene	105		102		70-130	3		30
Trichloroethene	103		100		70-130	3		30
1,2-Dichlorobenzene	102		100		70-130	2		30
1,3-Dichlorobenzene	104		100		70-130	4		30
1,4-Dichlorobenzene	102		100		70-130	2		30
Methyl tert butyl ether	104		102		66-130	2		30
p/m-Xylene	104		101		70-130	3		30
o-Xylene	104		101		70-130	3		30
cis-1,2-Dichloroethene	103		102		70-130	1		30
Dibromomethane	104		102		70-130	2		30
Styrene	106		103		70-130	3		30
Dichlorodifluoromethane	104		99		30-146	5		30
Acetone	102		98		54-140	4		30
Carbon disulfide	100		97		59-130	3		30
2-Butanone	96		93		70-130	3		30
Vinyl acetate	106		105		70-130	1		30
4-Methyl-2-pentanone	100		100		70-130	0		30
1,2,3-Trichloropropane	101		100		68-130	1		30
2-Hexanone	91		90		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1124649-3 WG1124649-4								
Bromochloromethane	106		104		70-130	2		30
2,2-Dichloropropane	108		103		70-130	5		30
1,2-Dibromoethane	103		101		70-130	2		30
1,3-Dichloropropane	104		102		69-130	2		30
1,1,1,2-Tetrachloroethane	105		100		70-130	5		30
Bromobenzene	101		99		70-130	2		30
n-Butylbenzene	106		102		70-130	4		30
sec-Butylbenzene	105		101		70-130	4		30
tert-Butylbenzene	104		100		70-130	4		30
o-Chlorotoluene	119		116		70-130	3		30
p-Chlorotoluene	104		102		70-130	2		30
1,2-Dibromo-3-chloropropane	92		93		68-130	1		30
Hexachlorobutadiene	99		94		67-130	5		30
Isopropylbenzene	105		101		70-130	4		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	101		99		70-130	2		30
Acrylonitrile	101		101		70-130	0		30
Isopropyl Ether	106		104		66-130	2		30
tert-Butyl Alcohol	95		96		70-130	1		30
n-Propylbenzene	105		102		70-130	3		30
1,2,3-Trichlorobenzene	103		100		70-130	3		30
1,2,4-Trichlorobenzene	105		100		70-130	5		30
1,3,5-Trimethylbenzene	105		102		70-130	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery		RPD	RPD	
	%Recovery	Qual	%Recovery	Qual	Limits	Qual		Limits	
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 03 Batch: WG1124649-3 WG1124649-4									
1,2,4-Trimethylbenzene	105		102		70-130		3		30
Methyl Acetate	103		103		51-146		0		30
Ethyl Acetate	104		103		70-130		1		30
Acrolein	100		97		70-130		3		30
Cyclohexane	105		103		59-142		2		30
1,4-Dioxane	101		101		65-136		0		30
1,1,2-Trichloro-1,2,2-Trifluoroethane	107		103		50-139		4		30
1,4-Diethylbenzene	104		100		70-130		4		30
4-Ethyltoluene	105		102		70-130		3		30
1,2,4,5-Tetramethylbenzene	105		102		70-130		3		30
Tetrahydrofuran	100		99		66-130		1		30
Ethyl ether	104		102		67-130		2		30
trans-1,4-Dichloro-2-butene	104		105		70-130		1		30
Methyl cyclohexane	104		101		70-130		3		30
Ethyl-Tert-Butyl-Ether	105		104		70-130		1		30
Tertiary-Amyl Methyl Ether	103		102		70-130		1		30

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

SEMIVOLATILES

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
Client ID: SB06_14-16
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/09/18 22:16
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 06/07/18 17:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	25.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	39.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	77		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/08/18 21:56
 Analyst: CB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	32.	1
Fluoranthene	230		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	950		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03

Date Collected: 06/01/18 09:34

Client ID: SB04_1-3

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	140		ug/kg	110	21.	1
Benzo(a)pyrene	61	J	ug/kg	150	45.	1
Benzo(b)fluoranthene	140		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	260		ug/kg	110	19.	1
Acenaphthylene	62	J	ug/kg	150	28.	1
Anthracene	58	J	ug/kg	110	36.	1
Benzo(ghi)perylene	140	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	380		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	22	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	74	J	ug/kg	150	26.	1
Pyrene	220		ug/kg	110	18.	1
Biphenyl	91	J	ug/kg	420	43.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	36	J	ug/kg	180	17.	1
2-Methylnaphthalene	1400		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	61.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
Client ID: SB04_1-3
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	180	35.	1
Benzoic Acid	ND		ug/kg	600	180	1
Benzyl Alcohol	ND		ug/kg	180	56.	1
Carbazole	25	J	ug/kg	180	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	60		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	23		10-136
4-Terphenyl-d14	54		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 09:18
 Analyst: EK
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	150	J	ug/kg	160	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	23.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	27.	1
2-Chloronaphthalene	ND		ug/kg	200	20.	1
1,2-Dichlorobenzene	ND		ug/kg	200	36.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	35.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	53.	1
2,4-Dinitrotoluene	ND		ug/kg	200	40.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Fluoranthene	3600		ug/kg	120	23.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	34.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	570	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	26.	1
Naphthalene	450		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	31.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	69.	1
Butyl benzyl phthalate	ND		ug/kg	200	50.	1
Di-n-butylphthalate	ND		ug/kg	200	38.	1
Di-n-octylphthalate	ND		ug/kg	200	68.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04

Date Collected: 06/01/18 09:42

Client ID: SB04_6-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	42.	1
Benzo(a)anthracene	1300		ug/kg	120	22.	1
Benzo(a)pyrene	1100		ug/kg	160	48.	1
Benzo(b)fluoranthene	1500		ug/kg	120	33.	1
Benzo(k)fluoranthene	530		ug/kg	120	32.	1
Chrysene	1500		ug/kg	120	21.	1
Acenaphthylene	340		ug/kg	160	31.	1
Anthracene	380		ug/kg	120	39.	1
Benzo(ghi)perylene	630		ug/kg	160	23.	1
Fluorene	250		ug/kg	200	19.	1
Phenanthrene	3900		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	150		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	710		ug/kg	160	28.	1
Pyrene	2800		ug/kg	120	20.	1
Biphenyl	56	J	ug/kg	450	46.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	82.	1
Dibenzofuran	340		ug/kg	200	19.	1
2-Methylnaphthalene	210	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	21.	1
Acetophenone	ND		ug/kg	200	25.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	38.	1
p-Chloro-m-cresol	ND		ug/kg	200	30.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	66.	1
2-Nitrophenol	ND		ug/kg	430	75.	1
4-Nitrophenol	ND		ug/kg	280	81.	1
2,4-Dinitrophenol	ND		ug/kg	950	93.	1
4,6-Dinitro-o-cresol	ND		ug/kg	520	95.	1
Pentachlorophenol	ND		ug/kg	160	44.	1
Phenol	47	J	ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	31.	1
3-Methylphenol/4-Methylphenol	74	J	ug/kg	290	31.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	61.	1
Carbazole	420		ug/kg	200	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	58		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 03:59
 Analyst: EK
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	21.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	25.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	33.	1
1,3-Dichlorobenzene	ND		ug/kg	180	32.	1
1,4-Dichlorobenzene	ND		ug/kg	180	32.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	49.	1
2,4-Dinitrotoluene	ND		ug/kg	180	37.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	ND		ug/kg	110	21.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	28.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	18.	1
Hexachlorobutadiene	ND		ug/kg	180	27.	1
Hexachlorocyclopentadiene	ND		ug/kg	520	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	160	24.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	27.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	74	J	ug/kg	180	64.	1
Butyl benzyl phthalate	ND		ug/kg	180	46.	1
Di-n-butylphthalate	ND		ug/kg	180	35.	1
Di-n-octylphthalate	ND		ug/kg	180	62.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05

Date Collected: 06/01/18 09:55

Client ID: SB04_10-12

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	ND		ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	28.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	420	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	35.	1
3-Nitroaniline	ND		ug/kg	180	35.	1
4-Nitroaniline	ND		ug/kg	180	76.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	35.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	22.	1
2,4-Dichlorophenol	ND		ug/kg	160	30.	1
2,4-Dimethylphenol	ND		ug/kg	180	60.	1
2-Nitrophenol	ND		ug/kg	400	69.	1
4-Nitrophenol	ND		ug/kg	260	75.	1
2,4-Dinitrophenol	ND		ug/kg	880	86.	1
4,6-Dinitro-o-cresol	ND		ug/kg	480	88.	1
Pentachlorophenol	ND		ug/kg	150	40.	1
Phenol	ND		ug/kg	180	28.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	29.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	60		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 07:59
 Analyst: EK
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	82	J	ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	160	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06

Date Collected: 06/01/18 10:30

Client ID: SB05_0-2

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	56	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	51	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	63	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	45	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	96	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	150	26.	1
Pyrene	87	J	ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	52		10-120
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	37		10-136
4-Terphenyl-d14	63		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 07:08
 Analyst: EK
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	120		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	63	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	61	J	ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	66	J	ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	29	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	140		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	29	J	ug/kg	150	26.	1
Pyrene	120		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	83		30-120
2,4,6-Tribromophenol	35		10-136
4-Terphenyl-d14	69		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 04:25
 Analyst: EK
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
Client ID: SB05_11-12
Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	58		10-136
4-Terphenyl-d14	53		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
Client ID: SB06_0-2
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 06/07/18 08:25
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	31.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	48.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	31.	1
Fluoranthene	110		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	31.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	28.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	62.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	61.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09

Date Collected: 06/01/18 12:02

Client ID: SB06_0-2

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	17.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	52	J	ug/kg	110	20.	1
Benzo(a)pyrene	50	J	ug/kg	140	44.	1
Benzo(b)fluoranthene	75	J	ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	72	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	39	J	ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	78	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	40	J	ug/kg	140	25.	1
Pyrene	100	J	ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	42.	1
4-Chloroaniline	ND		ug/kg	180	33.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	25	J	ug/kg	220	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	84.	1
4,6-Dinitro-o-cresol	ND		ug/kg	470	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
Client ID: SB06_0-2
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	31		10-136
4-Terphenyl-d14	59		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 04:50
 Analyst: EK
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

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

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10

Date Collected: 06/01/18 12:08

Client ID: SB06_6-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	38.	1
Benzo(a)anthracene	ND		ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	44.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	29.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	ND		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	410	41.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	22.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	19.	1
Acetophenone	ND		ug/kg	180	22.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	27.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	29.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	390	67.	1
4-Nitrophenol	ND		ug/kg	250	73.	1
2,4-Dinitrophenol	ND		ug/kg	860	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	86.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
Client ID: SB06_6-8
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	67		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/09/18 22:41
 Analyst: EK
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 06/09/18 08:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	65.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11

Date Collected: 06/01/18 12:15

Client ID: SB06_12-14

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	79.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	24.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	ND		ug/kg	190	63.	1
2-Nitrophenol	ND		ug/kg	410	72.	1
4-Nitrophenol	ND		ug/kg	270	78.	1
2,4-Dinitrophenol	ND		ug/kg	910	89.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	620	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	31		25-120
Phenol-d6	62		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	24		10-136
4-Terphenyl-d14	54		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 05:41
 Analyst: EK
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Fluoranthene	ND		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	ND		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	44.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	ND		ug/kg	190	18.	1
2-Methylnaphthalene	ND		ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	ND		ug/kg	190	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	75		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	63		10-136
4-Terphenyl-d14	58		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 02:43
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 06/06/18 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71	1
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4	1
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84	1
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70	1
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	5.0	0.60	1
Nitrobenzene	ND		ug/l	2.0	0.75	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91	1
Butyl benzyl phthalate	ND		ug/l	5.0	1.3	1
Di-n-butylphthalate	ND		ug/l	5.0	0.69	1
Di-n-octylphthalate	ND		ug/l	5.0	1.1	1
Diethyl phthalate	ND		ug/l	5.0	0.63	1
Dimethyl phthalate	ND		ug/l	5.0	0.65	1
Biphenyl	3.1		ug/l	2.0	0.76	1
4-Chloroaniline	ND		ug/l	5.0	0.63	1
2-Nitroaniline	ND		ug/l	5.0	1.1	1
3-Nitroaniline	ND		ug/l	5.0	1.2	1
4-Nitroaniline	ND		ug/l	5.0	1.3	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
Client ID: TW03_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	3.4		ug/l	2.0	0.66	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67	1
Acetophenone	ND		ug/l	5.0	0.85	1
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.62	1
2-Chlorophenol	ND		ug/l	2.0	0.63	1
2,4-Dichlorophenol	ND		ug/l	5.0	0.77	1
2,4-Dimethylphenol	ND		ug/l	5.0	1.6	1
2-Nitrophenol	ND		ug/l	10	1.5	1
4-Nitrophenol	ND		ug/l	10	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.5	1
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1	1
Phenol	ND		ug/l	5.0	1.9	1
2-Methylphenol	ND		ug/l	5.0	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72	1
Benzoic Acid	ND		ug/l	50	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	2.2		ug/l	2.0	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	45		21-120
Phenol-d6	32		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	91		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 06/07/18 13:27
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 06/06/18 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	3.8		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	0.34		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.50	0.04	1
Naphthalene	9.8		ug/l	0.10	0.04	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	0.05	J	ug/l	0.10	0.04	1
Acenaphthylene	0.71		ug/l	0.10	0.04	1
Anthracene	0.46		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	6.5		ug/l	0.10	0.04	1
Phenanthrene	6.0		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	0.47		ug/l	0.10	0.04	1
2-Methylnaphthalene	32		ug/l	0.10	0.05	1
Pentachlorophenol	ND		ug/l	0.80	0.22	1
Hexachlorobenzene	ND		ug/l	0.80	0.03	1
Hexachloroethane	ND		ug/l	0.80	0.03	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		21-120
Phenol-d6	29		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	74		15-120
2,4,6-Tribromophenol	92		10-120
4-Terphenyl-d14	79		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 03:09
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 06/06/18 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.9	0.65	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.66	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.72	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.67	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.69	1
3,3'-Dichlorobenzidine	ND		ug/l	4.9	1.4	1
2,4-Dinitrotoluene	ND		ug/l	4.9	0.83	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.61	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.72	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.68	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	0.61	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.7	1
Isophorone	ND		ug/l	4.9	0.59	1
Nitrobenzene	ND		ug/l	2.0	0.74	1
NDPA/DPA	ND		ug/l	2.0	0.63	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.9	0.68	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	2.9	0.89	1
Butyl benzyl phthalate	ND		ug/l	4.9	1.2	1
Di-n-butylphthalate	ND		ug/l	4.9	0.67	1
Di-n-octylphthalate	ND		ug/l	4.9	1.1	1
Diethyl phthalate	ND		ug/l	4.9	0.62	1
Dimethyl phthalate	ND		ug/l	4.9	0.64	1
Biphenyl	ND		ug/l	2.0	0.74	1
4-Chloroaniline	ND		ug/l	4.9	0.62	1
2-Nitroaniline	ND		ug/l	4.9	1.1	1
3-Nitroaniline	ND		ug/l	4.9	1.2	1
4-Nitroaniline	ND		ug/l	4.9	1.3	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
Client ID: TW05_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.64	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.8	0.65	1
Acetophenone	ND		ug/l	4.9	0.83	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	0.67	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.60	1
2-Chlorophenol	ND		ug/l	2.0	0.62	1
2,4-Dichlorophenol	ND		ug/l	4.9	0.75	1
2,4-Dimethylphenol	ND		ug/l	4.9	1.6	1
2-Nitrophenol	ND		ug/l	9.8	1.5	1
4-Nitrophenol	ND		ug/l	9.8	1.7	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	9.8	2.0	1
Phenol	ND		ug/l	4.9	1.8	1
2-Methylphenol	ND		ug/l	4.9	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.9	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	0.70	1
Benzoic Acid	ND		ug/l	49	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.71	1
Carbazole	ND		ug/l	2.0	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		21-120
Phenol-d6	35		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	88		15-120
2,4,6-Tribromophenol	90		10-120
4-Terphenyl-d14	88		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 06/07/18 13:54
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 06/06/18 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.03	1
2-Chloronaphthalene	ND		ug/l	0.20	0.03	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.49	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.03	1
Anthracene	ND		ug/l	0.10	0.03	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.78	0.22	1
Hexachlorobenzene	ND		ug/l	0.78	0.03	1
Hexachloroethane	ND		ug/l	0.78	0.03	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	76		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D
 Analytical Date: 06/07/18 03:34
 Analyst: EK

Extraction Method: EPA 3510C
 Extraction Date: 06/06/18 00:31

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
1,2,4-Trichlorobenzene	ND		ug/l	4.9	0.65	1
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.66	1
1,2-Dichlorobenzene	ND		ug/l	2.0	0.72	1
1,3-Dichlorobenzene	ND		ug/l	2.0	0.68	1
1,4-Dichlorobenzene	ND		ug/l	2.0	0.70	1
3,3'-Dichlorobenzidine	ND		ug/l	4.9	1.4	1
2,4-Dinitrotoluene	ND		ug/l	4.9	0.84	1
2,6-Dinitrotoluene	ND		ug/l	4.9	1.1	1
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62	1
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.72	1
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.69	1
Bis(2-chloroethoxy)methane	ND		ug/l	4.9	0.62	1
Hexachlorocyclopentadiene	ND		ug/l	20	7.8	1
Isophorone	ND		ug/l	4.9	0.59	1
Nitrobenzene	ND		ug/l	2.0	0.74	1
NDPA/DPA	ND		ug/l	2.0	0.64	1
n-Nitrosodi-n-propylamine	ND		ug/l	4.9	0.69	1
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.90	1
Butyl benzyl phthalate	ND		ug/l	4.9	1.2	1
Di-n-butylphthalate	ND		ug/l	4.9	0.68	1
Di-n-octylphthalate	ND		ug/l	4.9	1.1	1
Diethyl phthalate	ND		ug/l	4.9	0.62	1
Dimethyl phthalate	ND		ug/l	4.9	0.64	1
Biphenyl	ND		ug/l	2.0	0.75	1
4-Chloroaniline	ND		ug/l	4.9	0.62	1
2-Nitroaniline	ND		ug/l	4.9	1.1	1
3-Nitroaniline	ND		ug/l	4.9	1.2	1
4-Nitroaniline	ND		ug/l	4.9	1.3	1

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Dibenzofuran	ND		ug/l	2.0	0.65	1
1,2,4,5-Tetrachlorobenzene	ND		ug/l	9.9	0.66	1
Acetophenone	ND		ug/l	4.9	0.84	1
2,4,6-Trichlorophenol	ND		ug/l	4.9	0.67	1
p-Chloro-m-cresol	ND		ug/l	2.0	0.61	1
2-Chlorophenol	ND		ug/l	2.0	0.62	1
2,4-Dichlorophenol	ND		ug/l	4.9	0.76	1
2,4-Dimethylphenol	ND		ug/l	4.9	1.6	1
2-Nitrophenol	ND		ug/l	9.9	1.5	1
4-Nitrophenol	ND		ug/l	9.9	1.8	1
2,4-Dinitrophenol	ND		ug/l	20	5.4	1
4,6-Dinitro-o-cresol	ND		ug/l	9.9	2.1	1
Phenol	ND		ug/l	4.9	1.9	1
2-Methylphenol	ND		ug/l	4.9	1.0	1
3-Methylphenol/4-Methylphenol	ND		ug/l	4.9	1.1	1
2,4,5-Trichlorophenol	ND		ug/l	4.9	0.71	1
Benzoic Acid	ND		ug/l	49	13.	1
Benzyl Alcohol	ND		ug/l	2.0	0.72	1
Carbazole	ND		ug/l	2.0	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	48		21-120
Phenol-d6	34		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	84		15-120
2,4,6-Tribromophenol	88		10-120
4-Terphenyl-d14	84		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8270D-SIM
 Analytical Date: 06/07/18 14:21
 Analyst: DV

Extraction Method: EPA 3510C
 Extraction Date: 06/06/18 00:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.04	1
2-Chloronaphthalene	ND		ug/l	0.20	0.04	1
Fluoranthene	ND		ug/l	0.10	0.04	1
Hexachlorobutadiene	ND		ug/l	0.49	0.04	1
Naphthalene	ND		ug/l	0.10	0.04	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.04	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04	1
Chrysene	ND		ug/l	0.10	0.04	1
Acenaphthylene	ND		ug/l	0.10	0.04	1
Anthracene	ND		ug/l	0.10	0.04	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.04	1
Fluorene	ND		ug/l	0.10	0.04	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04	1
Pyrene	ND		ug/l	0.10	0.04	1
2-Methylnaphthalene	ND		ug/l	0.10	0.04	1
Pentachlorophenol	ND		ug/l	0.79	0.22	1
Hexachlorobenzene	ND		ug/l	0.79	0.03	1
Hexachloroethane	ND		ug/l	0.79	0.03	1

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

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

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	37		21-120
Phenol-d6	28		10-120
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	66		15-120
2,4,6-Tribromophenol	94		10-120
4-Terphenyl-d14	74		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/07/18 01:02
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-10,12 Batch: WG1122310-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/07/18 01:02
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-10,12 Batch: WG1122310-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/07/18 01:02
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/04/18 18:33

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03-10,12 Batch: WG1122310-1					
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

Total TIC Compounds	247	J	ug/kg
Aldol Condensates	247	J	ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	101		25-120
Phenol-d6	104		10-120
Nitrobenzene-d5	99		23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	76		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/06/18 02:47
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 06/05/18 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-15 Batch: WG1122496-1					
Acenaphthene	ND		ug/l	2.0	0.59
1,2,4-Trichlorobenzene	ND		ug/l	5.0	0.66
Hexachlorobenzene	ND		ug/l	2.0	0.58
Bis(2-chloroethyl)ether	ND		ug/l	2.0	0.67
2-Chloronaphthalene	ND		ug/l	2.0	0.64
1,2-Dichlorobenzene	ND		ug/l	2.0	0.73
1,3-Dichlorobenzene	ND		ug/l	2.0	0.69
1,4-Dichlorobenzene	ND		ug/l	2.0	0.71
3,3'-Dichlorobenzidine	ND		ug/l	5.0	1.4
2,4-Dinitrotoluene	ND		ug/l	5.0	0.84
2,6-Dinitrotoluene	ND		ug/l	5.0	1.1
Fluoranthene	ND		ug/l	2.0	0.57
4-Chlorophenyl phenyl ether	ND		ug/l	2.0	0.62
4-Bromophenyl phenyl ether	ND		ug/l	2.0	0.73
Bis(2-chloroisopropyl)ether	ND		ug/l	2.0	0.70
Bis(2-chloroethoxy)methane	ND		ug/l	5.0	0.63
Hexachlorobutadiene	ND		ug/l	2.0	0.72
Hexachlorocyclopentadiene	ND		ug/l	20	7.8
Hexachloroethane	ND		ug/l	2.0	0.68
Isophorone	ND		ug/l	5.0	0.60
Naphthalene	ND		ug/l	2.0	0.68
Nitrobenzene	ND		ug/l	2.0	0.75
NDPA/DPA	ND		ug/l	2.0	0.64
n-Nitrosodi-n-propylamine	ND		ug/l	5.0	0.70
Bis(2-ethylhexyl)phthalate	ND		ug/l	3.0	0.91
Butyl benzyl phthalate	ND		ug/l	5.0	1.3
Di-n-butylphthalate	ND		ug/l	5.0	0.69
Di-n-octylphthalate	ND		ug/l	5.0	1.1
Diethyl phthalate	ND		ug/l	5.0	0.63

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/06/18 02:47
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 06/05/18 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-15 Batch: WG1122496-1					
Dimethyl phthalate	ND		ug/l	5.0	0.65
Benzo(a)anthracene	ND		ug/l	2.0	0.61
Benzo(a)pyrene	ND		ug/l	2.0	0.54
Benzo(b)fluoranthene	ND		ug/l	2.0	0.64
Benzo(k)fluoranthene	ND		ug/l	2.0	0.60
Chrysene	ND		ug/l	2.0	0.54
Acenaphthylene	ND		ug/l	2.0	0.66
Anthracene	ND		ug/l	2.0	0.64
Benzo(ghi)perylene	ND		ug/l	2.0	0.61
Fluorene	ND		ug/l	2.0	0.62
Phenanthrene	ND		ug/l	2.0	0.61
Dibenzo(a,h)anthracene	ND		ug/l	2.0	0.55
Indeno(1,2,3-cd)pyrene	ND		ug/l	2.0	0.71
Pyrene	ND		ug/l	2.0	0.57
Biphenyl	ND		ug/l	2.0	0.76
4-Chloroaniline	ND		ug/l	5.0	0.63
2-Nitroaniline	ND		ug/l	5.0	1.1
3-Nitroaniline	ND		ug/l	5.0	1.2
4-Nitroaniline	ND		ug/l	5.0	1.3
Dibenzofuran	ND		ug/l	2.0	0.66
2-Methylnaphthalene	ND		ug/l	2.0	0.72
1,2,4,5-Tetrachlorobenzene	ND		ug/l	10	0.67
Acetophenone	ND		ug/l	5.0	0.85
2,4,6-Trichlorophenol	ND		ug/l	5.0	0.68
p-Chloro-m-cresol	ND		ug/l	2.0	0.62
2-Chlorophenol	ND		ug/l	2.0	0.63
2,4-Dichlorophenol	ND		ug/l	5.0	0.77
2,4-Dimethylphenol	ND		ug/l	5.0	1.6
2-Nitrophenol	ND		ug/l	10	1.5

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/06/18 02:47
Analyst: HL

Extraction Method: EPA 3510C
Extraction Date: 06/05/18 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 13-15 Batch: WG1122496-1					
4-Nitrophenol	ND		ug/l	10	1.8
2,4-Dinitrophenol	ND		ug/l	20	5.5
4,6-Dinitro-o-cresol	ND		ug/l	10	2.1
Pentachlorophenol	ND		ug/l	10	3.4
Phenol	ND		ug/l	5.0	1.9
2-Methylphenol	ND		ug/l	5.0	1.0
3-Methylphenol/4-Methylphenol	ND		ug/l	5.0	1.1
2,4,5-Trichlorophenol	ND		ug/l	5.0	0.72
Benzoic Acid	ND		ug/l	50	13.
Benzyl Alcohol	ND		ug/l	2.0	0.72
Carbazole	ND		ug/l	2.0	0.63

Tentatively Identified Compounds

Total TIC Compounds	44.0	J	ug/l
Aldol Condensates	6.02	J	ug/l
Unknown Pyrrolidinone	38.0	J	ug/l

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		21-120
Phenol-d6	30		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	72		15-120
2,4,6-Tribromophenol	68		10-120
4-Terphenyl-d14	66		41-149



Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/07/18 11:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/06/18 00:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-15 Batch: WG1122829-1					
Acenaphthene	ND		ug/l	0.10	0.04
2-Chloronaphthalene	ND		ug/l	0.20	0.04
Fluoranthene	ND		ug/l	0.10	0.04
Hexachlorobutadiene	ND		ug/l	0.50	0.04
Naphthalene	ND		ug/l	0.10	0.04
Benzo(a)anthracene	ND		ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.04
Benzo(b)fluoranthene	ND		ug/l	0.10	0.02
Benzo(k)fluoranthene	ND		ug/l	0.10	0.04
Chrysene	ND		ug/l	0.10	0.04
Acenaphthylene	ND		ug/l	0.10	0.04
Anthracene	ND		ug/l	0.10	0.04
Benzo(ghi)perylene	ND		ug/l	0.10	0.04
Fluorene	ND		ug/l	0.10	0.04
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.04
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.04
Pyrene	ND		ug/l	0.10	0.04
2-Methylnaphthalene	ND		ug/l	0.10	0.05
Pentachlorophenol	ND		ug/l	0.80	0.22
Hexachlorobenzene	ND		ug/l	0.80	0.03
Hexachloroethane	ND		ug/l	0.80	0.03

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D-SIM
Analytical Date: 06/07/18 11:12
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 06/06/18 00:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 13-15 Batch: WG1122829-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		21-120
Phenol-d6	10		10-120
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	71		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	79		41-149

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/09/18 19:43
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/07/18 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1123660-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/09/18 19:43
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/07/18 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1123660-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/09/18 19:43
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/07/18 17:50

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1123660-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	84		30-120
2,4,6-Tribromophenol	85		10-136
4-Terphenyl-d14	83		18-120

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/09/18 19:49
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/08/18 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1124120-1					
Acenaphthene	ND		ug/kg	130	17.
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 06/09/18 19:49
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/08/18 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1124120-1					
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Biphenyl	ND		ug/kg	370	38.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8270D
Analytical Date: 06/09/18 19:49
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 06/08/18 21:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 11 Batch: WG1124120-1					
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	76.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	79		30-120
2,4,6-Tribromophenol	98		10-136
4-Terphenyl-d14	92		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-10,12 Batch: WG1122310-2 WG1122310-3								
Acenaphthene	80		72		31-137	11		50
1,2,4-Trichlorobenzene	81		75		38-107	8		50
Hexachlorobenzene	78		69		40-140	12		50
Bis(2-chloroethyl)ether	85		78		40-140	9		50
2-Chloronaphthalene	83		75		40-140	10		50
1,2-Dichlorobenzene	82		76		40-140	8		50
1,3-Dichlorobenzene	78		73		40-140	7		50
1,4-Dichlorobenzene	80		74		28-104	8		50
3,3'-Dichlorobenzidine	60		55		40-140	9		50
2,4-Dinitrotoluene	83		73		40-132	13		50
2,6-Dinitrotoluene	84		74		40-140	13		50
Fluoranthene	75		68		40-140	10		50
4-Chlorophenyl phenyl ether	81		71		40-140	13		50
4-Bromophenyl phenyl ether	83		74		40-140	11		50
Bis(2-chloroisopropyl)ether	91		84		40-140	8		50
Bis(2-chloroethoxy)methane	88		80		40-117	10		50
Hexachlorobutadiene	81		76		40-140	6		50
Hexachlorocyclopentadiene	56		48		40-140	15		50
Hexachloroethane	82		77		40-140	6		50
Isophorone	88		80		40-140	10		50
Naphthalene	83		76		40-140	9		50
Nitrobenzene	84		78		40-140	7		50
NDPA/DPA	81		72		36-157	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-10,12 Batch: WG1122310-2 WG1122310-3								
n-Nitrosodi-n-propylamine	88		80		32-121	10		50
Bis(2-ethylhexyl)phthalate	90		82		40-140	9		50
Butyl benzyl phthalate	82		74		40-140	10		50
Di-n-butylphthalate	81		74		40-140	9		50
Di-n-octylphthalate	90		82		40-140	9		50
Diethyl phthalate	82		72		40-140	13		50
Dimethyl phthalate	87		77		40-140	12		50
Benzo(a)anthracene	78		71		40-140	9		50
Benzo(a)pyrene	76		70		40-140	8		50
Benzo(b)fluoranthene	79		69		40-140	14		50
Benzo(k)fluoranthene	74		70		40-140	6		50
Chrysene	76		68		40-140	11		50
Acenaphthylene	87		77		40-140	12		50
Anthracene	77		71		40-140	8		50
Benzo(ghi)perylene	77		70		40-140	10		50
Fluorene	80		71		40-140	12		50
Phenanthrene	75		69		40-140	8		50
Dibenzo(a,h)anthracene	78		70		40-140	11		50
Indeno(1,2,3-cd)pyrene	76		68		40-140	11		50
Pyrene	74		67		35-142	10		50
Biphenyl	87		78		54-104	11		50
4-Chloroaniline	80		75		40-140	6		50
2-Nitroaniline	93		81		47-134	14		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-10,12 Batch: WG1122310-2 WG1122310-3								
3-Nitroaniline	66		61		26-129	8		50
4-Nitroaniline	77		68		41-125	12		50
Dibenzofuran	81		72		40-140	12		50
2-Methylnaphthalene	85		78		40-140	9		50
1,2,4,5-Tetrachlorobenzene	88		78		40-117	12		50
Acetophenone	86		80		14-144	7		50
2,4,6-Trichlorophenol	88		77		30-130	13		50
p-Chloro-m-cresol	89		79		26-103	12		50
2-Chlorophenol	85		79		25-102	7		50
2,4-Dichlorophenol	89		80		30-130	11		50
2,4-Dimethylphenol	88		80		30-130	10		50
2-Nitrophenol	89		80		30-130	11		50
4-Nitrophenol	85		74		11-114	14		50
2,4-Dinitrophenol	72		63		4-130	13		50
4,6-Dinitro-o-cresol	92		76		10-130	19		50
Pentachlorophenol	66		57		17-109	15		50
Phenol	87		79		26-90	10		50
2-Methylphenol	88		80		30-130.	10		50
3-Methylphenol/4-Methylphenol	92		85		30-130	8		50
2,4,5-Trichlorophenol	87		77		30-130	12		50
Benzoic Acid	69		68		10-110	1		50
Benzyl Alcohol	92		83		40-140	10		50
Carbazole	76		69		54-128	10		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03-10,12 Batch: WG1122310-2 WG1122310-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	84		75		25-120
Phenol-d6	85		75		10-120
Nitrobenzene-d5	81		74		23-120
2-Fluorobiphenyl	83		73		30-120
2,4,6-Tribromophenol	78		65		10-136
4-Terphenyl-d14	70		61		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-15 Batch: WG1122496-2 WG1122496-3								
Acenaphthene	85		86		37-111	1		30
1,2,4-Trichlorobenzene	80		90		39-98	12		30
Hexachlorobenzene	77		79		40-140	3		30
Bis(2-chloroethyl)ether	82		94		40-140	14		30
2-Chloronaphthalene	84		92		40-140	9		30
1,2-Dichlorobenzene	76		86		40-140	12		30
1,3-Dichlorobenzene	76		84		40-140	10		30
1,4-Dichlorobenzene	76		86		36-97	12		30
3,3'-Dichlorobenzidine	66		69		40-140	4		30
2,4-Dinitrotoluene	107		111		48-143	4		30
2,6-Dinitrotoluene	105		116		40-140	10		30
Fluoranthene	85		86		40-140	1		30
4-Chlorophenyl phenyl ether	81		83		40-140	2		30
4-Bromophenyl phenyl ether	79		81		40-140	3		30
Bis(2-chloroisopropyl)ether	98		111		40-140	12		30
Bis(2-chloroethoxy)methane	86		98		40-140	13		30
Hexachlorobutadiene	75		83		40-140	10		30
Hexachlorocyclopentadiene	68		75		40-140	10		30
Hexachloroethane	78		87		40-140	11		30
Isophorone	90		103		40-140	13		30
Naphthalene	80		88		40-140	10		30
Nitrobenzene	90		100		40-140	11		30
NDPA/DPA	85		88		40-140	3		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-15 Batch: WG1122496-2 WG1122496-3								
n-Nitrosodi-n-propylamine	87		99		29-132	13		30
Bis(2-ethylhexyl)phthalate	100		102		40-140	2		30
Butyl benzyl phthalate	95		97		40-140	2		30
Di-n-butylphthalate	92		93		40-140	1		30
Di-n-octylphthalate	98		100		40-140	2		30
Diethyl phthalate	91		95		40-140	4		30
Dimethyl phthalate	87		97		40-140	11		30
Benzo(a)anthracene	86		89		40-140	3		30
Benzo(a)pyrene	82		84		40-140	2		30
Benzo(b)fluoranthene	80		83		40-140	4		30
Benzo(k)fluoranthene	82		84		40-140	2		30
Chrysene	87		91		40-140	4		30
Acenaphthylene	88		98		45-123	11		30
Anthracene	89		91		40-140	2		30
Benzo(ghi)perylene	84		86		40-140	2		30
Fluorene	86		89		40-140	3		30
Phenanthrene	86		87		40-140	1		30
Dibenzo(a,h)anthracene	82		84		40-140	2		30
Indeno(1,2,3-cd)pyrene	82		84		40-140	2		30
Pyrene	84		85		26-127	1		30
Biphenyl	87		96		40-140	10		30
4-Chloroaniline	82		88		40-140	7		30
2-Nitroaniline	107		119		52-143	11		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-15 Batch: WG1122496-2 WG1122496-3								
3-Nitroaniline	95		91		25-145	4		30
4-Nitroaniline	98		102		51-143	4		30
Dibenzofuran	83		86		40-140	4		30
2-Methylnaphthalene	85		92		40-140	8		30
1,2,4,5-Tetrachlorobenzene	82		91		2-134	10		30
Acetophenone	88		98		39-129	11		30
2,4,6-Trichlorophenol	88		97		30-130	10		30
p-Chloro-m-cresol	88		98	Q	23-97	11		30
2-Chlorophenol	80		90		27-123	12		30
2,4-Dichlorophenol	88		100		30-130	13		30
2,4-Dimethylphenol	89		100		30-130	12		30
2-Nitrophenol	101		116		30-130	14		30
4-Nitrophenol	64		69		10-80	8		30
2,4-Dinitrophenol	94		94		20-130	0		30
4,6-Dinitro-o-cresol	104		109		20-164	5		30
Pentachlorophenol	74		78		9-103	5		30
Phenol	35		41		12-110	16		30
2-Methylphenol	78		88		30-130	12		30
3-Methylphenol/4-Methylphenol	80		90		30-130	12		30
2,4,5-Trichlorophenol	88		95		30-130	8		30
Benzoic Acid	20		33		10-164	49	Q	30
Benzyl Alcohol	74		81		26-116	9		30
Carbazole	89		90		55-144	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 13-15 Batch: WG1122496-2 WG1122496-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	49		54		21-120
Phenol-d6	34		39		10-120
Nitrobenzene-d5	85		96		23-120
2-Fluorobiphenyl	73		80		15-120
2,4,6-Tribromophenol	75		77		10-120
4-Terphenyl-d14	70		71		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-15 Batch: WG1122829-2 WG1122829-3								
Acenaphthene	81		79		40-140	3		40
2-Chloronaphthalene	70		68		40-140	3		40
Fluoranthene	80		78		40-140	3		40
Hexachlorobutadiene	59		56		40-140	5		40
Naphthalene	65		63		40-140	3		40
Benzo(a)anthracene	76		74		40-140	3		40
Benzo(a)pyrene	76		74		40-140	3		40
Benzo(b)fluoranthene	81		80		40-140	1		40
Benzo(k)fluoranthene	67		64		40-140	5		40
Chrysene	75		74		40-140	1		40
Acenaphthylene	80		78		40-140	3		40
Anthracene	77		75		40-140	3		40
Benzo(ghi)perylene	76		73		40-140	4		40
Fluorene	87		84		40-140	4		40
Phenanthrene	75		73		40-140	3		40
Dibenzo(a,h)anthracene	78		75		40-140	4		40
Indeno(1,2,3-cd)pyrene	88		85		40-140	3		40
Pyrene	77		75		40-140	3		40
2-Methylnaphthalene	65		62		40-140	5		40
Pentachlorophenol	78		78		40-140	0		40
Hexachlorobenzene	85		84		40-140	1		40
Hexachloroethane	59		56		40-140	5		40

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 13-15 Batch: WG1122829-2 WG1122829-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	53		50		21-120
Phenol-d6	39		36		10-120
Nitrobenzene-d5	89		83		23-120
2-Fluorobiphenyl	95		90		15-120
2,4,6-Tribromophenol	114		109		10-120
4-Terphenyl-d14	86		81		41-149

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1123660-2 WG1123660-3								
Acenaphthene	72		50		31-137	36		50
1,2,4-Trichlorobenzene	69		47		38-107	38		50
Hexachlorobenzene	72		50		40-140	36		50
Bis(2-chloroethyl)ether	72		48		40-140	40		50
2-Chloronaphthalene	69		49		40-140	34		50
1,2-Dichlorobenzene	70		47		40-140	39		50
1,3-Dichlorobenzene	67		46		40-140	37		50
1,4-Dichlorobenzene	69		46		28-104	40		50
3,3'-Dichlorobenzidine	61		44		40-140	32		50
2,4-Dinitrotoluene	75		51		40-132	38		50
2,6-Dinitrotoluene	73		50		40-140	37		50
Fluoranthene	70		49		40-140	35		50
4-Chlorophenyl phenyl ether	73		50		40-140	37		50
4-Bromophenyl phenyl ether	76		53		40-140	36		50
Bis(2-chloroisopropyl)ether	74		50		40-140	39		50
Bis(2-chloroethoxy)methane	72		49		40-117	38		50
Hexachlorobutadiene	70		49		40-140	35		50
Hexachlorocyclopentadiene	52		30	Q	40-140	54	Q	50
Hexachloroethane	70		47		40-140	39		50
Isophorone	72		49		40-140	38		50
Naphthalene	69		48		40-140	36		50
Nitrobenzene	70		46		40-140	41		50
NDPA/DPA	72		50		36-157	36		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1123660-2 WG1123660-3								
n-Nitrosodi-n-propylamine	72		49		32-121	38		50
Bis(2-ethylhexyl)phthalate	80		54		40-140	39		50
Butyl benzyl phthalate	74		52		40-140	35		50
Di-n-butylphthalate	74		52		40-140	35		50
Di-n-octylphthalate	82		55		40-140	39		50
Diethyl phthalate	72		50		40-140	36		50
Dimethyl phthalate	72		50		40-140	36		50
Benzo(a)anthracene	74		50		40-140	39		50
Benzo(a)pyrene	72		49		40-140	38		50
Benzo(b)fluoranthene	75		49		40-140	42		50
Benzo(k)fluoranthene	69		48		40-140	36		50
Chrysene	71		49		40-140	37		50
Acenaphthylene	73		51		40-140	35		50
Anthracene	71		50		40-140	35		50
Benzo(ghi)perylene	72		50		40-140	36		50
Fluorene	72		50		40-140	36		50
Phenanthrene	71		50		40-140	35		50
Dibenzo(a,h)anthracene	69		48		40-140	36		50
Indeno(1,2,3-cd)pyrene	70		48		40-140	37		50
Pyrene	69		49		35-142	34		50
Biphenyl	72		50	Q	54-104	36		50
4-Chloroaniline	69		53		40-140	26		50
2-Nitroaniline	76		52		47-134	38		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1123660-2 WG1123660-3								
3-Nitroaniline	61		45		26-129	30		50
4-Nitroaniline	69		48		41-125	36		50
Dibenzofuran	73		50		40-140	37		50
2-Methylnaphthalene	72		49		40-140	38		50
1,2,4,5-Tetrachlorobenzene	72		50		40-117	36		50
Acetophenone	72		50		14-144	36		50
2,4,6-Trichlorophenol	73		51		30-130	35		50
p-Chloro-m-cresol	74		50		26-103	39		50
2-Chlorophenol	71		49		25-102	37		50
2,4-Dichlorophenol	75		50		30-130	40		50
2,4-Dimethylphenol	75		50		30-130	40		50
2-Nitrophenol	75		50		30-130	40		50
4-Nitrophenol	73		48		11-114	41		50
2,4-Dinitrophenol	57		35		4-130	48		50
4,6-Dinitro-o-cresol	81		50		10-130	47		50
Pentachlorophenol	58		36		17-109	47		50
Phenol	72		48		26-90	40		50
2-Methylphenol	75		52		30-130.	36		50
3-Methylphenol/4-Methylphenol	78		53		30-130	38		50
2,4,5-Trichlorophenol	74		50		30-130	39		50
Benzoic Acid	50		40		10-110	22		50
Benzyl Alcohol	75		51		40-140	38		50
Carbazole	71		51	Q	54-128	33		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1123660-2 WG1123660-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	73		48		25-120
Phenol-d6	73		49		10-120
Nitrobenzene-d5	72		47		23-120
2-Fluorobiphenyl	73		50		30-120
2,4,6-Tribromophenol	77		52		10-136
4-Terphenyl-d14	68		49		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1124120-2 WG1124120-3								
Acenaphthene	79		84		31-137	6		50
1,2,4-Trichlorobenzene	75		81		38-107	8		50
Hexachlorobenzene	81		84		40-140	4		50
Bis(2-chloroethyl)ether	79		83		40-140	5		50
2-Chloronaphthalene	82		89		40-140	8		50
1,2-Dichlorobenzene	74		81		40-140	9		50
1,3-Dichlorobenzene	74		80		40-140	8		50
1,4-Dichlorobenzene	71		80		28-104	12		50
3,3'-Dichlorobenzidine	73		78		40-140	7		50
2,4-Dinitrotoluene	95		101		40-132	6		50
2,6-Dinitrotoluene	99		102		40-140	3		50
Fluoranthene	84		88		40-140	5		50
4-Chlorophenyl phenyl ether	79		83		40-140	5		50
4-Bromophenyl phenyl ether	83		86		40-140	4		50
Bis(2-chloroisopropyl)ether	81		88		40-140	8		50
Bis(2-chloroethoxy)methane	84		92		40-117	9		50
Hexachlorobutadiene	74		81		40-140	9		50
Hexachlorocyclopentadiene	89		98		40-140	10		50
Hexachloroethane	76		82		40-140	8		50
Isophorone	87		99		40-140	13		50
Naphthalene	79		87		40-140	10		50
Nitrobenzene	81		87		40-140	7		50
NDPA/DPA	84		89		36-157	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1124120-2 WG1124120-3								
n-Nitrosodi-n-propylamine	85		93		32-121	9		50
Bis(2-ethylhexyl)phthalate	100		106		40-140	6		50
Butyl benzyl phthalate	100		105		40-140	5		50
Di-n-butylphthalate	93		99		40-140	6		50
Di-n-octylphthalate	98		104		40-140	6		50
Diethyl phthalate	87		91		40-140	4		50
Dimethyl phthalate	94		96		40-140	2		50
Benzo(a)anthracene	83		88		40-140	6		50
Benzo(a)pyrene	90		94		40-140	4		50
Benzo(b)fluoranthene	86		89		40-140	3		50
Benzo(k)fluoranthene	88		92		40-140	4		50
Chrysene	80		85		40-140	6		50
Acenaphthylene	88		93		40-140	6		50
Anthracene	83		89		40-140	7		50
Benzo(ghi)perylene	93		98		40-140	5		50
Fluorene	83		88		40-140	6		50
Phenanthrene	82		86		40-140	5		50
Dibenzo(a,h)anthracene	99		105		40-140	6		50
Indeno(1,2,3-cd)pyrene	94		100		40-140	6		50
Pyrene	83		87		35-142	5		50
Biphenyl	85		94		54-104	10		50
4-Chloroaniline	69		74		40-140	7		50
2-Nitroaniline	98		104		47-134	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1124120-2 WG1124120-3								
3-Nitroaniline	75		76		26-129	1		50
4-Nitroaniline	84		86		41-125	2		50
Dibenzofuran	80		86		40-140	7		50
2-Methylnaphthalene	82		87		40-140	6		50
1,2,4,5-Tetrachlorobenzene	81		87		40-117	7		50
Acetophenone	80		87		14-144	8		50
2,4,6-Trichlorophenol	93		100		30-130	7		50
p-Chloro-m-cresol	96		100		26-103	4		50
2-Chlorophenol	87		94		25-102	8		50
2,4-Dichlorophenol	94		101		30-130	7		50
2,4-Dimethylphenol	93		104		30-130	11		50
2-Nitrophenol	97		111		30-130	13		50
4-Nitrophenol	99		105		11-114	6		50
2,4-Dinitrophenol	84		95		4-130	12		50
4,6-Dinitro-o-cresol	99		103		10-130	4		50
Pentachlorophenol	79		84		17-109	6		50
Phenol	87		93	Q	26-90	7		50
2-Methylphenol	88		96		30-130.	9		50
3-Methylphenol/4-Methylphenol	90		98		30-130	9		50
2,4,5-Trichlorophenol	98		103		30-130	5		50
Benzoic Acid	46		70		10-110	41		50
Benzyl Alcohol	90		95		40-140	5		50
Carbazole	86		90		54-128	5		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 11 Batch: WG1124120-2 WG1124120-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
2-Fluorophenol	85		94		25-120
Phenol-d6	89		96		10-120
Nitrobenzene-d5	84		91		23-120
2-Fluorobiphenyl	86		97		30-120
2,4,6-Tribromophenol	97		104		10-136
4-Terphenyl-d14	84		92		18-120

PCBS

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/09/18 00:58
 Analyst: HT
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 06/07/18 21:48
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/08/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.4	4.24	1	A
Aroclor 1221	ND		ug/kg	37.4	5.69	1	A
Aroclor 1232	ND		ug/kg	37.4	3.68	1	A
Aroclor 1242	ND		ug/kg	37.4	4.58	1	A
Aroclor 1248	ND		ug/kg	37.4	4.20	1	A
Aroclor 1254	ND		ug/kg	37.4	3.05	1	A
Aroclor 1260	ND		ug/kg	37.4	3.90	1	A
Aroclor 1262	ND		ug/kg	37.4	3.07	1	A
Aroclor 1268	ND		ug/kg	37.4	2.65	1	A
PCBs, Total	ND		ug/kg	37.4	2.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		30-150	B
Decachlorobiphenyl	79		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 18:37
 Analyst: KB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	4.05	1	A
Aroclor 1221	ND		ug/kg	35.7	5.44	1	A
Aroclor 1232	ND		ug/kg	35.7	3.52	1	A
Aroclor 1242	ND		ug/kg	35.7	4.37	1	A
Aroclor 1248	ND		ug/kg	35.7	4.01	1	A
Aroclor 1254	ND		ug/kg	35.7	2.92	1	A
Aroclor 1260	ND		ug/kg	35.7	3.73	1	A
Aroclor 1262	ND		ug/kg	35.7	2.94	1	A
Aroclor 1268	ND		ug/kg	35.7	2.53	1	A
PCBs, Total	ND		ug/kg	35.7	2.53	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 18:49
 Analyst: KB
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.4	4.36	1	A
Aroclor 1221	ND		ug/kg	38.4	5.84	1	A
Aroclor 1232	ND		ug/kg	38.4	3.78	1	A
Aroclor 1242	ND		ug/kg	38.4	4.70	1	A
Aroclor 1248	ND		ug/kg	38.4	4.31	1	A
Aroclor 1254	ND		ug/kg	38.4	3.13	1	A
Aroclor 1260	ND		ug/kg	38.4	4.01	1	A
Aroclor 1262	ND		ug/kg	38.4	3.16	1	A
Aroclor 1268	ND		ug/kg	38.4	2.72	1	A
PCBs, Total	ND		ug/kg	38.4	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	58		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
Client ID: SB04_10-12
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/07/18 19:02
Analyst: KB
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 06/04/18 19:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/06/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.0	4.08	1	A
Aroclor 1221	ND		ug/kg	36.0	5.47	1	A
Aroclor 1232	ND		ug/kg	36.0	3.54	1	A
Aroclor 1242	ND		ug/kg	36.0	4.40	1	A
Aroclor 1248	ND		ug/kg	36.0	4.03	1	A
Aroclor 1254	ND		ug/kg	36.0	2.93	1	A
Aroclor 1260	ND		ug/kg	36.0	3.75	1	A
Aroclor 1262	ND		ug/kg	36.0	2.96	1	A
Aroclor 1268	ND		ug/kg	36.0	2.54	1	A
PCBs, Total	ND		ug/kg	36.0	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	66		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 19:14
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.6	4.27	1	A
Aroclor 1221	ND		ug/kg	37.6	5.73	1	A
Aroclor 1232	ND		ug/kg	37.6	3.70	1	A
Aroclor 1242	ND		ug/kg	37.6	4.60	1	A
Aroclor 1248	ND		ug/kg	37.6	4.22	1	A
Aroclor 1254	ND		ug/kg	37.6	3.07	1	A
Aroclor 1260	7.79	J	ug/kg	37.6	3.93	1	A
Aroclor 1262	ND		ug/kg	37.6	3.09	1	A
Aroclor 1268	ND		ug/kg	37.6	2.66	1	A
PCBs, Total	7.79	J	ug/kg	37.6	2.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 19:27
 Analyst: KB
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.0	4.20	1	A
Aroclor 1221	ND		ug/kg	37.0	5.64	1	A
Aroclor 1232	ND		ug/kg	37.0	3.64	1	A
Aroclor 1242	ND		ug/kg	37.0	4.53	1	A
Aroclor 1248	ND		ug/kg	37.0	4.15	1	A
Aroclor 1254	ND		ug/kg	37.0	3.02	1	A
Aroclor 1260	ND		ug/kg	37.0	3.86	1	A
Aroclor 1262	ND		ug/kg	37.0	3.04	1	A
Aroclor 1268	ND		ug/kg	37.0	2.62	1	A
PCBs, Total	ND		ug/kg	37.0	2.62	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 19:39
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	36.8	4.17	1	A
Aroclor 1221	ND		ug/kg	36.8	5.60	1	A
Aroclor 1232	ND		ug/kg	36.8	3.62	1	A
Aroclor 1242	ND		ug/kg	36.8	4.50	1	A
Aroclor 1248	ND		ug/kg	36.8	4.13	1	A
Aroclor 1254	ND		ug/kg	36.8	3.00	1	A
Aroclor 1260	ND		ug/kg	36.8	3.84	1	A
Aroclor 1262	ND		ug/kg	36.8	3.02	1	A
Aroclor 1268	ND		ug/kg	36.8	2.60	1	A
PCBs, Total	ND		ug/kg	36.8	2.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 19:52
 Analyst: KB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.8	4.06	1	A
Aroclor 1221	ND		ug/kg	35.8	5.46	1	A
Aroclor 1232	ND		ug/kg	35.8	3.53	1	A
Aroclor 1242	ND		ug/kg	35.8	4.39	1	A
Aroclor 1248	ND		ug/kg	35.8	4.02	1	A
Aroclor 1254	ND		ug/kg	35.8	2.92	1	A
Aroclor 1260	ND		ug/kg	35.8	3.74	1	A
Aroclor 1262	ND		ug/kg	35.8	2.95	1	A
Aroclor 1268	ND		ug/kg	35.8	2.54	1	A
PCBs, Total	ND		ug/kg	35.8	2.54	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	69		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 20:04
 Analyst: KB
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.5	3.91	1	A
Aroclor 1221	ND		ug/kg	34.5	5.25	1	A
Aroclor 1232	ND		ug/kg	34.5	3.39	1	A
Aroclor 1242	11.5	J	ug/kg	34.5	4.22	1	A
Aroclor 1248	ND		ug/kg	34.5	3.87	1	A
Aroclor 1254	ND		ug/kg	34.5	2.81	1	A
Aroclor 1260	ND		ug/kg	34.5	3.60	1	A
Aroclor 1262	ND		ug/kg	34.5	2.83	1	A
Aroclor 1268	ND		ug/kg	34.5	2.44	1	A
PCBs, Total	11.5	J	ug/kg	34.5	2.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 06/07/18 20:17
 Analyst: KB
 Percent Solids: 85%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 19:36
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/06/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	38.5	4.36	1	A
Aroclor 1221	ND		ug/kg	38.5	5.86	1	A
Aroclor 1232	ND		ug/kg	38.5	3.78	1	A
Aroclor 1242	ND		ug/kg	38.5	4.71	1	A
Aroclor 1248	ND		ug/kg	38.5	4.32	1	A
Aroclor 1254	ND		ug/kg	38.5	3.14	1	A
Aroclor 1260	8.34	J	ug/kg	38.5	4.02	1	A
Aroclor 1262	ND		ug/kg	38.5	3.16	1	A
Aroclor 1268	ND		ug/kg	38.5	2.72	1	A
PCBs, Total	8.34	J	ug/kg	38.5	2.72	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	67		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
Client ID: SBDUP02_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 06/07/18 20:29
Analyst: KB
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 06/04/18 19:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/06/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	37.5	4.26	1	A
Aroclor 1221	ND		ug/kg	37.5	5.71	1	A
Aroclor 1232	ND		ug/kg	37.5	3.69	1	A
Aroclor 1242	ND		ug/kg	37.5	4.59	1	A
Aroclor 1248	ND		ug/kg	37.5	4.21	1	A
Aroclor 1254	ND		ug/kg	37.5	3.06	1	A
Aroclor 1260	ND		ug/kg	37.5	3.92	1	A
Aroclor 1262	ND		ug/kg	37.5	3.08	1	A
Aroclor 1268	ND		ug/kg	37.5	2.66	1	A
PCBs, Total	ND		ug/kg	37.5	2.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	67		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	72		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8082A
 Analytical Date: 06/09/18 00:26
 Analyst: WR

Extraction Method: EPA 3510C
 Extraction Date: 06/07/18 08:11
 Cleanup Method: EPA 3665A
 Cleanup Date: 06/07/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 06/07/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
Client ID: TW05_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/09/18 00:39
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/07/18 08:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/07/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/07/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	81		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
Client ID: TWDUP01_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 06/09/18 00:52
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/07/18 08:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/07/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/07/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.083	0.020	1	A
Aroclor 1221	ND		ug/l	0.083	0.032	1	A
Aroclor 1232	ND		ug/l	0.083	0.027	1	A
Aroclor 1242	ND		ug/l	0.083	0.030	1	A
Aroclor 1248	ND		ug/l	0.083	0.023	1	A
Aroclor 1254	ND		ug/l	0.083	0.035	1	A
Aroclor 1260	ND		ug/l	0.083	0.020	1	A
Aroclor 1262	ND		ug/l	0.083	0.017	1	A
Aroclor 1268	ND		ug/l	0.083	0.027	1	A
PCBs, Total	ND		ug/l	0.083	0.017	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	87		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 06/07/18 21:07
Analyst: KB

Extraction Method: EPA 3546
Extraction Date: 06/04/18 19:36
Cleanup Method: EPA 3665A
Cleanup Date: 06/06/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03-12 Batch: WG1122321-1						
Aroclor 1016	ND		ug/kg	31.7	3.60	A
Aroclor 1221	ND		ug/kg	31.7	4.83	A
Aroclor 1232	ND		ug/kg	31.7	3.12	A
Aroclor 1242	ND		ug/kg	31.7	3.88	A
Aroclor 1248	ND		ug/kg	31.7	3.56	A
Aroclor 1254	ND		ug/kg	31.7	2.59	A
Aroclor 1260	ND		ug/kg	31.7	3.31	A
Aroclor 1262	ND		ug/kg	31.7	2.61	A
Aroclor 1268	ND		ug/kg	31.7	2.25	A
PCBs, Total	ND		ug/kg	31.7	2.25	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 06/08/18 07:48
Analyst: WR

Extraction Method: EPA 3510C
Extraction Date: 06/07/18 08:11
Cleanup Method: EPA 3665A
Cleanup Date: 06/07/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/07/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 13-15 Batch: WG1123399-1						
Aroclor 1016	ND		ug/l	0.083	0.020	A
Aroclor 1221	ND		ug/l	0.083	0.032	A
Aroclor 1232	ND		ug/l	0.083	0.027	A
Aroclor 1242	ND		ug/l	0.083	0.030	A
Aroclor 1248	ND		ug/l	0.083	0.023	A
Aroclor 1254	ND		ug/l	0.083	0.035	A
Aroclor 1260	ND		ug/l	0.083	0.020	A
Aroclor 1262	ND		ug/l	0.083	0.017	A
Aroclor 1268	ND		ug/l	0.083	0.027	A
PCBs, Total	ND		ug/l	0.083	0.017	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		30-150	B
Decachlorobiphenyl	85		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 06/08/18 08:40
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 06/07/18 17:13
Cleanup Method: EPA 3665A
Cleanup Date: 06/08/18
Cleanup Method: EPA 3660B
Cleanup Date: 06/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1123656-1						
Aroclor 1016	ND		ug/kg	31.3	3.55	A
Aroclor 1221	ND		ug/kg	31.3	4.77	A
Aroclor 1232	ND		ug/kg	31.3	3.08	A
Aroclor 1242	ND		ug/kg	31.3	3.84	A
Aroclor 1248	ND		ug/kg	31.3	3.52	A
Aroclor 1254	ND		ug/kg	31.3	2.56	A
Aroclor 1260	ND		ug/kg	31.3	3.27	A
Aroclor 1262	ND		ug/kg	31.3	2.58	A
Aroclor 1268	ND		ug/kg	31.3	2.22	A
PCBs, Total	ND		ug/kg	31.3	2.22	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		30-150	B
Decachlorobiphenyl	84		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03-12 Batch: WG1122321-2 WG1122321-3									
Aroclor 1016	92		92		40-140	0		50	A
Aroclor 1260	84		87		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		91		30-150	A
Decachlorobiphenyl	70		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		94		30-150	B
Decachlorobiphenyl	74		81		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 13-15 Batch: WG1123399-2 WG1123399-3									
Aroclor 1016	75		75		40-140	0		50	A
Aroclor 1260	74		73		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	87		85		30-150	A
Decachlorobiphenyl	79		68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		87		30-150	B
Decachlorobiphenyl	89		77		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1123656-2 WG1123656-3									
Aroclor 1016	74		78		40-140	5		50	A
Aroclor 1260	80		96		40-140	18		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	88		87		30-150	A
Decachlorobiphenyl	78		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		87		30-150	B
Decachlorobiphenyl	87		89		30-150	B

PESTICIDES

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/09/18 21:32
 Analyst: KB
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 06/07/18 20:35
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.731	0.327	1	A
Alpha-BHC	ND		ug/kg	0.731	0.208	1	A
Beta-BHC	ND		ug/kg	1.75	0.665	1	A
Heptachlor	ND		ug/kg	0.877	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.986	1	A
Endrin	ND		ug/kg	0.731	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.767	1	A
Endrin ketone	ND		ug/kg	1.75	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.548	1	A
4,4'-DDE	ND		ug/kg	1.75	0.406	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	3.29	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.586	1	A
Endosulfan sulfate	ND		ug/kg	0.731	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.21	1	A
cis-Chlordane	ND		ug/kg	2.19	0.611	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.2	5.81	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	67		30-150	B
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	70		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/10/18 21:22
 Analyst: SL
 Percent Solids: 88%
 Methylation Date: 06/09/18 21:38

Extraction Method: EPA 8151A
 Extraction Date: 06/08/18 15:37

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.77	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	115		30-150	A
DCAA	94		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
Client ID: SB04_1-3
Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/07/18 15:49
Analyst: KB
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 06/04/18 20:58
Cleanup Method: EPA 3620B
Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.70	0.333	1	A
Lindane	ND		ug/kg	0.709	0.317	1	A
Alpha-BHC	ND		ug/kg	0.709	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.645	1	A
Heptachlor	ND		ug/kg	0.851	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.599	1	A
Heptachlor epoxide	ND		ug/kg	3.19	0.957	1	A
Endrin	ND		ug/kg	0.709	0.291	1	A
Endrin aldehyde	ND		ug/kg	2.13	0.744	1	A
Endrin ketone	ND		ug/kg	1.70	0.438	1	A
Dieldrin	ND		ug/kg	1.06	0.532	1	A
4,4'-DDE	ND		ug/kg	1.70	0.393	1	A
4,4'-DDD	ND		ug/kg	1.70	0.607	1	A
4,4'-DDT	ND		ug/kg	3.19	1.37	1	A
Endosulfan I	ND		ug/kg	1.70	0.402	1	A
Endosulfan II	1.52	JPI	ug/kg	1.70	0.568	1	A
Endosulfan sulfate	ND		ug/kg	0.709	0.337	1	A
Methoxychlor	ND		ug/kg	3.19	0.992	1	A
Toxaphene	ND		ug/kg	31.9	8.93	1	A
cis-Chlordane	ND		ug/kg	2.13	0.593	1	A
trans-Chlordane	ND		ug/kg	2.13	0.561	1	A
Chlordane	ND		ug/kg	13.8	5.64	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	97		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 17:42
 Analyst: SL
 Percent Solids: 91%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	180	11.4	1	A
2,4,5-T	ND		ug/kg	180	5.60	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	39		30-150	A
DCAA	53		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 16:01
 Analyst: KB
 Percent Solids: 84%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.88	0.369	1	A
Lindane	ND		ug/kg	0.786	0.351	1	A
Alpha-BHC	ND		ug/kg	0.786	0.223	1	A
Beta-BHC	ND		ug/kg	1.88	0.715	1	A
Heptachlor	ND		ug/kg	0.943	0.423	1	A
Aldrin	ND		ug/kg	1.88	0.664	1	A
Heptachlor epoxide	ND		ug/kg	3.54	1.06	1	A
Endrin	ND		ug/kg	0.786	0.322	1	A
Endrin aldehyde	ND		ug/kg	2.36	0.825	1	A
Endrin ketone	ND		ug/kg	1.88	0.486	1	A
Dieldrin	ND		ug/kg	1.18	0.589	1	A
4,4'-DDE	ND		ug/kg	1.88	0.436	1	A
4,4'-DDD	ND		ug/kg	1.88	0.673	1	A
4,4'-DDT	ND		ug/kg	3.54	1.52	1	A
Endosulfan I	ND		ug/kg	1.88	0.446	1	A
Endosulfan II	ND		ug/kg	1.88	0.630	1	A
Endosulfan sulfate	ND		ug/kg	0.786	0.374	1	A
Methoxychlor	ND		ug/kg	3.54	1.10	1	A
Toxaphene	ND		ug/kg	35.4	9.90	1	A
cis-Chlordane	ND		ug/kg	2.36	0.657	1	A
trans-Chlordane	ND		ug/kg	2.36	0.622	1	A
Chlordane	ND		ug/kg	15.3	6.25	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	62		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	54		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 18:01
 Analyst: SL
 Percent Solids: 84%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	197	12.4	1	A
2,4,5-T	ND		ug/kg	197	6.12	1	A
2,4,5-TP (Silvex)	ND		ug/kg	197	5.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	131		30-150	A
DCAA	107		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 16:14
 Analyst: KB
 Percent Solids: 88%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.735	0.329	1	A
Alpha-BHC	ND		ug/kg	0.735	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.669	1	A
Heptachlor	ND		ug/kg	0.882	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.621	1	A
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	A
Endrin	ND		ug/kg	0.735	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.772	1	A
Endrin ketone	ND		ug/kg	1.76	0.454	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.629	1	A
4,4'-DDT	ND		ug/kg	3.31	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	A
Methoxychlor	ND		ug/kg	3.31	1.03	1	A
Toxaphene	ND		ug/kg	33.1	9.26	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A
trans-Chlordane	ND		ug/kg	2.21	0.582	1	A
Chlordane	ND		ug/kg	14.3	5.85	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	66		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	51		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 18:20
 Analyst: SL
 Percent Solids: 88%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	185	11.7	1	A
2,4,5-T	ND		ug/kg	185	5.74	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	127		30-150	A
DCAA	108		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 16:27
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.357	1	A
Lindane	ND		ug/kg	0.760	0.340	1	A
Alpha-BHC	ND		ug/kg	0.760	0.216	1	A
Beta-BHC	ND		ug/kg	1.82	0.691	1	A
Heptachlor	ND		ug/kg	0.912	0.409	1	A
Aldrin	ND		ug/kg	1.82	0.642	1	A
Heptachlor epoxide	ND		ug/kg	3.42	1.02	1	A
Endrin	ND		ug/kg	0.760	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.798	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	ND		ug/kg	1.14	0.570	1	A
4,4'-DDE	ND		ug/kg	1.82	0.422	1	A
4,4'-DDD	ND		ug/kg	1.82	0.650	1	A
4,4'-DDT	ND		ug/kg	3.42	1.47	1	A
Endosulfan I	ND		ug/kg	1.82	0.431	1	A
Endosulfan II	ND		ug/kg	1.82	0.609	1	A
Endosulfan sulfate	ND		ug/kg	0.760	0.362	1	A
Methoxychlor	ND		ug/kg	3.42	1.06	1	A
Toxaphene	ND		ug/kg	34.2	9.57	1	A
cis-Chlordane	ND		ug/kg	2.28	0.635	1	A
trans-Chlordane	ND		ug/kg	2.28	0.602	1	A
Chlordane	ND		ug/kg	14.8	6.04	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	64		30-150	B
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	64		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 18:39
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.79	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	119		30-150	A
DCAA	100		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 16:39
 Analyst: KB
 Percent Solids: 86%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.75	0.342	1	A
Lindane	ND		ug/kg	0.729	0.326	1	A
Alpha-BHC	ND		ug/kg	0.729	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.663	1	A
Heptachlor	ND		ug/kg	0.875	0.392	1	A
Aldrin	ND		ug/kg	1.75	0.616	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.984	1	A
Endrin	ND		ug/kg	0.729	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.765	1	A
Endrin ketone	ND		ug/kg	1.75	0.450	1	A
Dieldrin	ND		ug/kg	1.09	0.547	1	A
4,4'-DDE	ND		ug/kg	1.75	0.404	1	A
4,4'-DDD	ND		ug/kg	1.75	0.624	1	A
4,4'-DDT	ND		ug/kg	3.28	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.413	1	A
Endosulfan II	ND		ug/kg	1.75	0.584	1	A
Endosulfan sulfate	ND		ug/kg	0.729	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.18	1	A
cis-Chlordane	ND		ug/kg	2.19	0.609	1	A
trans-Chlordane	ND		ug/kg	2.19	0.577	1	A
Chlordane	ND		ug/kg	14.2	5.79	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	72		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	55		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 18:58
 Analyst: SL
 Percent Solids: 86%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.83	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	121		30-150	A
DCAA	106		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 16:52
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.82	0.356	1	A
Lindane	ND		ug/kg	0.758	0.339	1	A
Alpha-BHC	ND		ug/kg	0.758	0.215	1	A
Beta-BHC	ND		ug/kg	1.82	0.690	1	A
Heptachlor	ND		ug/kg	0.910	0.408	1	A
Aldrin	ND		ug/kg	1.82	0.641	1	A
Heptachlor epoxide	ND		ug/kg	3.41	1.02	1	A
Endrin	ND		ug/kg	0.758	0.311	1	A
Endrin aldehyde	ND		ug/kg	2.28	0.796	1	A
Endrin ketone	ND		ug/kg	1.82	0.469	1	A
Dieldrin	ND		ug/kg	1.14	0.569	1	A
4,4'-DDE	ND		ug/kg	1.82	0.421	1	A
4,4'-DDD	ND		ug/kg	1.82	0.649	1	A
4,4'-DDT	ND		ug/kg	3.41	1.46	1	A
Endosulfan I	ND		ug/kg	1.82	0.430	1	A
Endosulfan II	ND		ug/kg	1.82	0.608	1	A
Endosulfan sulfate	ND		ug/kg	0.758	0.361	1	A
Methoxychlor	ND		ug/kg	3.41	1.06	1	A
Toxaphene	ND		ug/kg	34.1	9.56	1	A
cis-Chlordane	ND		ug/kg	2.28	0.634	1	A
trans-Chlordane	ND		ug/kg	2.28	0.601	1	A
Chlordane	ND		ug/kg	14.8	6.03	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	78		30-150	B
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	65		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 19:17
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.90	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	128		30-150	A
DCAA	103		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 17:05
 Analyst: KB
 Percent Solids: 91%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.726	0.324	1	A
Alpha-BHC	ND		ug/kg	0.726	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.871	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.613	1	A
Heptachlor epoxide	ND		ug/kg	3.27	0.980	1	A
Endrin	ND		ug/kg	0.726	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	ND		ug/kg	1.74	0.403	1	B
4,4'-DDD	ND		ug/kg	1.74	0.621	1	A
4,4'-DDT	ND		ug/kg	3.27	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.412	1	A
Endosulfan II	ND		ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.726	0.345	1	A
Methoxychlor	ND		ug/kg	3.27	1.02	1	A
Toxaphene	ND		ug/kg	32.7	9.14	1	A
cis-Chlordane	ND		ug/kg	2.18	0.607	1	A
trans-Chlordane	ND		ug/kg	2.18	0.575	1	A
Chlordane	ND		ug/kg	14.2	5.77	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	87		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 19:36
 Analyst: SL
 Percent Solids: 91%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	183	11.5	1	A
2,4,5-T	ND		ug/kg	183	5.67	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	139		30-150	A
DCAA	113		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 17:17
 Analyst: KB
 Percent Solids: 92%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.72	0.338	1	A
Lindane	ND		ug/kg	0.718	0.321	1	A
Alpha-BHC	ND		ug/kg	0.718	0.204	1	A
Beta-BHC	ND		ug/kg	1.72	0.654	1	A
Heptachlor	ND		ug/kg	0.862	0.386	1	A
Aldrin	ND		ug/kg	1.72	0.607	1	A
Heptachlor epoxide	ND		ug/kg	3.23	0.970	1	A
Endrin	ND		ug/kg	0.718	0.295	1	A
Endrin aldehyde	ND		ug/kg	2.16	0.754	1	A
Endrin ketone	ND		ug/kg	1.72	0.444	1	A
Dieldrin	ND		ug/kg	1.08	0.539	1	A
4,4'-DDE	ND		ug/kg	1.72	0.399	1	A
4,4'-DDD	ND		ug/kg	1.72	0.615	1	A
4,4'-DDT	ND		ug/kg	3.23	1.39	1	A
Endosulfan I	ND		ug/kg	1.72	0.407	1	A
Endosulfan II	ND		ug/kg	1.72	0.576	1	A
Endosulfan sulfate	ND		ug/kg	0.718	0.342	1	A
Methoxychlor	ND		ug/kg	3.23	1.00	1	A
Toxaphene	ND		ug/kg	32.3	9.05	1	A
cis-Chlordane	ND		ug/kg	2.16	0.601	1	A
trans-Chlordane	ND		ug/kg	2.16	0.569	1	A
Chlordane	ND		ug/kg	14.0	5.71	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	58		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 20:13
 Analyst: SL
 Percent Solids: 92%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	179	11.3	1	A
2,4,5-T	ND		ug/kg	179	5.54	1	A
2,4,5-TP (Silvex)	ND		ug/kg	179	4.76	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	126		30-150	A
DCAA	103		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
Client ID: SB06_12-14
Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
Date Received: 06/01/18
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 06/07/18 17:30
Analyst: KB
Percent Solids: 85%

Extraction Method: EPA 3546
Extraction Date: 06/04/18 20:58
Cleanup Method: EPA 3620B
Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.77	0.347	1	A
Lindane	ND		ug/kg	0.738	0.330	1	A
Alpha-BHC	ND		ug/kg	0.738	0.209	1	A
Beta-BHC	ND		ug/kg	1.77	0.671	1	A
Heptachlor	ND		ug/kg	0.885	0.397	1	A
Aldrin	ND		ug/kg	1.77	0.623	1	A
Heptachlor epoxide	ND		ug/kg	3.32	0.996	1	A
Endrin	ND		ug/kg	0.738	0.302	1	A
Endrin aldehyde	ND		ug/kg	2.21	0.774	1	A
Endrin ketone	ND		ug/kg	1.77	0.456	1	A
Dieldrin	ND		ug/kg	1.11	0.553	1	A
4,4'-DDE	2.06		ug/kg	1.77	0.409	1	A
4,4'-DDD	ND		ug/kg	1.77	0.631	1	A
4,4'-DDT	ND		ug/kg	3.32	1.42	1	A
Endosulfan I	ND		ug/kg	1.77	0.418	1	A
Endosulfan II	ND		ug/kg	1.77	0.592	1	A
Endosulfan sulfate	ND		ug/kg	0.738	0.351	1	A
Methoxychlor	ND		ug/kg	3.32	1.03	1	A
Toxaphene	ND		ug/kg	33.2	9.29	1	A
cis-Chlordane	ND		ug/kg	2.21	0.617	1	A
trans-Chlordane	ND		ug/kg	2.21	0.584	1	A
Chlordane	ND		ug/kg	14.4	5.86	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	62		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 20:32
 Analyst: SL
 Percent Solids: 85%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.06	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	134		30-150	A
DCAA	112		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 06/07/18 17:43
 Analyst: KB
 Percent Solids: 87%

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.866	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	ND		ug/kg	3.25	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.409	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.1	5.74	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	75		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	59		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 06/07/18 20:51
 Analyst: SL
 Percent Solids: 87%
 Methylation Date: 06/06/18 21:35

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 06:42

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.80	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	129		30-150	A
DCAA	109		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 06/09/18 23:49
 Analyst: KB

Extraction Method: EPA 3510C
 Extraction Date: 06/08/18 15:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	ND		ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 06/06/18 17:53
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 06/04/18 22:46

Methylation Date: 06/05/18 17:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	86		30-150	A
DCAA	89		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8081B
 Analytical Date: 06/10/18 00:02
 Analyst: KB

Extraction Method: EPA 3510C
 Extraction Date: 06/08/18 15:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	0.063	P	ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 06/06/18 18:12
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 06/04/18 22:46

Methylation Date: 06/05/18 17:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	105		30-150	A
DCAA	105		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
Client ID: TWDUP01_060118
Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
Date Received: 06/01/18
Field Prep: Refer to COC

Sample Depth:

Matrix: Water
Analytical Method: 1,8081B
Analytical Date: 06/10/18 00:14
Analyst: KB

Extraction Method: EPA 3510C
Extraction Date: 06/08/18 15:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/l	0.014	0.003	1	A
Lindane	ND		ug/l	0.014	0.003	1	A
Alpha-BHC	ND		ug/l	0.014	0.003	1	A
Beta-BHC	ND		ug/l	0.014	0.004	1	A
Heptachlor	ND		ug/l	0.014	0.002	1	A
Aldrin	ND		ug/l	0.014	0.002	1	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	1	A
Endrin	ND		ug/l	0.029	0.003	1	A
Endrin aldehyde	ND		ug/l	0.029	0.006	1	A
Endrin ketone	ND		ug/l	0.029	0.003	1	A
Dieldrin	ND		ug/l	0.029	0.003	1	A
4,4'-DDE	ND		ug/l	0.029	0.003	1	A
4,4'-DDD	ND		ug/l	0.029	0.003	1	A
4,4'-DDT	0.025	J	ug/l	0.029	0.003	1	A
Endosulfan I	ND		ug/l	0.014	0.002	1	A
Endosulfan II	ND		ug/l	0.029	0.004	1	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	1	A
Methoxychlor	ND		ug/l	0.143	0.005	1	A
Toxaphene	ND		ug/l	0.143	0.045	1	A
cis-Chlordane	ND		ug/l	0.014	0.005	1	A
trans-Chlordane	ND		ug/l	0.014	0.004	1	A
Chlordane	ND		ug/l	0.143	0.033	1	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	60		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:

Matrix: Water
 Analytical Method: 1,8151A
 Analytical Date: 06/06/18 18:32
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 06/04/18 22:46

Methylation Date: 06/05/18 17:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/l	10.0	0.498	1	A
2,4,5-T	ND		ug/l	2.00	0.531	1	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	101		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/07/18 14:07
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/04/18 20:58
Cleanup Method: EPA 3620B
Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-12 Batch: WG1122350-1						
Delta-BHC	ND		ug/kg	1.58	0.310	A
Lindane	ND		ug/kg	0.659	0.294	A
Alpha-BHC	ND		ug/kg	0.659	0.187	A
Beta-BHC	ND		ug/kg	1.58	0.599	A
Heptachlor	ND		ug/kg	0.790	0.354	A
Aldrin	ND		ug/kg	1.58	0.557	A
Heptachlor epoxide	ND		ug/kg	2.96	0.889	A
Endrin	ND		ug/kg	0.659	0.270	A
Endrin aldehyde	ND		ug/kg	1.98	0.692	A
Endrin ketone	ND		ug/kg	1.58	0.407	A
Dieldrin	ND		ug/kg	0.988	0.494	A
4,4'-DDE	ND		ug/kg	1.58	0.366	A
4,4'-DDD	ND		ug/kg	1.58	0.564	A
4,4'-DDT	ND		ug/kg	2.96	1.27	A
Endosulfan I	ND		ug/kg	1.58	0.374	A
Endosulfan II	ND		ug/kg	1.58	0.528	A
Endosulfan sulfate	ND		ug/kg	0.659	0.314	A
Methoxychlor	ND		ug/kg	2.96	0.922	A
Toxaphene	ND		ug/kg	29.6	8.30	A
cis-Chlordane	ND		ug/kg	1.98	0.551	A
trans-Chlordane	ND		ug/kg	1.98	0.522	A
Chlordane	ND		ug/kg	12.8	5.24	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 06/07/18 14:07
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 06/04/18 20:58
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/06/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03-12 Batch: WG1122350-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	58		30-150	B
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	83		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 06/06/18 16:14
Analyst: SL

Extraction Method: EPA 8151A
Extraction Date: 06/04/18 22:46

Methylation Date: 06/05/18 17:08

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 13-15 Batch: WG1122364-1						
2,4-D	ND		ug/l	10.0	0.498	A
2,4,5-T	ND		ug/l	2.00	0.531	A
2,4,5-TP (Silvex)	ND		ug/l	2.00	0.539	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	96		30-150	A
DCAA	101		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8151A
 Analytical Date: 06/05/18 17:53
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 06/05/18 01:32

Methylation Date: 06/05/18 14:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03-12 Batch: WG1122400-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	97		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/09/18 20:54
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 06/07/18 20:35
Cleanup Method: EPA 3620B
Cleanup Date: 06/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1123696-1						
Delta-BHC	ND		ug/kg	1.52	0.298	A
Lindane	ND		ug/kg	0.633	0.283	A
Alpha-BHC	ND		ug/kg	0.633	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.760	0.341	A
Aldrin	ND		ug/kg	1.52	0.535	A
Heptachlor epoxide	ND		ug/kg	2.85	0.855	A
Endrin	ND		ug/kg	0.633	0.260	A
Endrin aldehyde	ND		ug/kg	1.90	0.665	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.950	0.475	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.542	A
4,4'-DDT	ND		ug/kg	2.85	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.359	A
Endosulfan II	ND		ug/kg	1.52	0.508	A
Endosulfan sulfate	ND		ug/kg	0.633	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.887	A
Toxaphene	ND		ug/kg	28.5	7.98	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.502	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 06/09/18 20:54
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 06/07/18 20:35
 Cleanup Method: EPA 3620B
 Cleanup Date: 06/08/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1123696-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	61		30-150	B
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	62		30-150	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 06/09/18 22:25
Analyst: KEG

Extraction Method: EPA 3510C
Extraction Date: 06/08/18 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 13-15 Batch: WG1123884-1						
Delta-BHC	ND		ug/l	0.014	0.003	A
Lindane	ND		ug/l	0.014	0.003	A
Alpha-BHC	ND		ug/l	0.014	0.003	A
Beta-BHC	ND		ug/l	0.014	0.004	A
Heptachlor	ND		ug/l	0.014	0.002	A
Aldrin	ND		ug/l	0.014	0.002	A
Heptachlor epoxide	ND		ug/l	0.014	0.003	A
Endrin	ND		ug/l	0.029	0.003	A
Endrin aldehyde	ND		ug/l	0.029	0.006	A
Endrin ketone	ND		ug/l	0.029	0.003	A
Dieldrin	ND		ug/l	0.029	0.003	A
4,4'-DDE	ND		ug/l	0.029	0.003	A
4,4'-DDD	ND		ug/l	0.029	0.003	A
4,4'-DDT	ND		ug/l	0.029	0.003	A
Endosulfan I	ND		ug/l	0.014	0.002	A
Endosulfan II	ND		ug/l	0.029	0.004	A
Endosulfan sulfate	ND		ug/l	0.029	0.003	A
Methoxychlor	ND		ug/l	0.143	0.005	A
Toxaphene	ND		ug/l	0.143	0.045	A
cis-Chlordane	ND		ug/l	0.014	0.005	A
trans-Chlordane	ND		ug/l	0.014	0.004	A
Chlordane	ND		ug/l	0.143	0.033	A

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 06/09/18 22:25
 Analyst: KEG

Extraction Method: EPA 3510C
 Extraction Date: 06/08/18 09:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 13-15 Batch: WG1123884-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	65		30-150	B

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

**Method Blank Analysis
 Batch Quality Control**

Analytical Method: 1,8151A
 Analytical Date: 06/10/18 20:26
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 06/08/18 15:37

Methylation Date: 06/09/18 21:38

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1124048-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	124		30-150	A
DCAA	104		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-12 Batch: WG1122350-2 WG1122350-3									
Delta-BHC	97		102		30-150	5		30	A
Lindane	82		91		30-150	10		30	A
Alpha-BHC	89		97		30-150	9		30	A
Beta-BHC	84		89		30-150	6		30	A
Heptachlor	88		96		30-150	9		30	A
Aldrin	87		95		30-150	9		30	A
Heptachlor epoxide	72		77		30-150	7		30	A
Endrin	96		100		30-150	4		30	A
Endrin aldehyde	80		93		30-150	15		30	A
Endrin ketone	88		102		30-150	15		30	A
Dieldrin	97		104		30-150	7		30	A
4,4'-DDE	91		97		30-150	6		30	A
4,4'-DDD	92		99		30-150	7		30	A
4,4'-DDT	94		99		30-150	5		30	A
Endosulfan I	86		93		30-150	8		30	A
Endosulfan II	87		95		30-150	9		30	A
Endosulfan sulfate	85		101		30-150	17		30	A
Methoxychlor	83		90		30-150	8		30	A
cis-Chlordane	79		83		30-150	5		30	A
trans-Chlordane	67		76		30-150	13		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03-12 Batch: WG1122350-2 WG1122350-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	74		76		30-150	B
Decachlorobiphenyl	95		97		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		69		30-150	A
Decachlorobiphenyl	75		75		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 13-15 Batch: WG1122364-2 WG1122364-3									
2,4-D	115		115		30-150	0		25	A
2,4,5-T	127		124		30-150	2		25	A
2,4,5-TP (Silvex)	119		120		30-150	1		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	105		107		30-150	A
DCAA	117		119		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03-12 Batch: WG1122400-2 WG1122400-3									
2,4-D	103		111		30-150	7		30	A
2,4,5-T	104		112		30-150	7		30	A
2,4,5-TP (Silvex)	101		107		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria	Column
DCAA	86		96		30-150	A
DCAA	94		101		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1123696-2 WG1123696-3									
Delta-BHC	104		106		30-150	2		30	A
Lindane	101		106		30-150	5		30	A
Alpha-BHC	102		105		30-150	3		30	A
Beta-BHC	89		95		30-150	7		30	A
Heptachlor	108		111		30-150	3		30	A
Aldrin	99		104		30-150	5		30	A
Heptachlor epoxide	101		104		30-150	3		30	A
Endrin	122		127		30-150	4		30	A
Endrin aldehyde	87		91		30-150	4		30	A
Endrin ketone	107		111		30-150	4		30	A
Dieldrin	110		106		30-150	4		30	A
4,4'-DDE	96		100		30-150	4		30	A
4,4'-DDD	105		109		30-150	4		30	A
4,4'-DDT	120		123		30-150	2		30	A
Endosulfan I	95		100		30-150	5		30	A
Endosulfan II	98		100		30-150	2		30	A
Endosulfan sulfate	92		93		30-150	1		30	A
Methoxychlor	142		147		30-150	3		30	A
cis-Chlordane	85		89		30-150	5		30	A
trans-Chlordane	86		88		30-150	2		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1123696-2 WG1123696-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	58		63		30-150	B
Decachlorobiphenyl	61		65		30-150	B
2,4,5,6-Tetrachloro-m-xylene	71		71		30-150	A
Decachlorobiphenyl	66		67		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 13-15 Batch: WG1123884-2 WG1123884-3									
Delta-BHC	84		62		30-150	30	Q	20	A
Lindane	68		56		30-150	18		20	A
Alpha-BHC	70		62		30-150	12		20	A
Beta-BHC	63		59		30-150	6		20	A
Heptachlor	64		52		30-150	21	Q	20	A
Aldrin	64		53		30-150	19		20	A
Heptachlor epoxide	68		56		30-150	18		20	A
Endrin	70		61		30-150	14		20	A
Endrin aldehyde	72		64		30-150	11		20	A
Endrin ketone	72		62		30-150	15		20	A
Dieldrin	73		60		30-150	19		20	A
4,4'-DDE	75		58		30-150	25	Q	20	A
4,4'-DDD	69		61		30-150	14		20	A
4,4'-DDT	68		61		30-150	12		20	A
Endosulfan I	72		57		30-150	23	Q	20	A
Endosulfan II	65		55		30-150	16		20	A
Endosulfan sulfate	75		62		30-150	19		20	A
Methoxychlor	67		65		30-150	3		20	A
cis-Chlordane	63		52		30-150	19		20	A
trans-Chlordane	67		56		30-150	17		20	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 13-15 Batch: WG1123884-2 WG1123884-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	53		45		30-150	A
Decachlorobiphenyl	50		45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		46		30-150	B
Decachlorobiphenyl	55		54		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1124048-2 WG1124048-3									
2,4-D	150		166	Q	30-150	10		30	A
2,4,5-T	107		116		30-150	8		30	A
2,4,5-TP (Silvex)	132		144		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	116		138		30-150	A
DCAA	105		114		30-150	B

METALS

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02
 Client ID: SB06_14-16
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:20
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3300		mg/kg	8.52	2.30	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.26	0.324	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Arsenic, Total	2.13		mg/kg	0.852	0.177	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Barium, Total	20.4		mg/kg	0.852	0.148	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Beryllium, Total	0.298	J	mg/kg	0.426	0.028	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Cadmium, Total	0.196	J	mg/kg	0.852	0.084	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Calcium, Total	653		mg/kg	8.52	2.98	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Chromium, Total	7.36		mg/kg	0.852	0.082	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Cobalt, Total	3.74		mg/kg	1.70	0.141	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Copper, Total	12.0		mg/kg	0.852	0.220	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Iron, Total	6970		mg/kg	4.26	0.770	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Lead, Total	4.17	J	mg/kg	4.26	0.228	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Magnesium, Total	1750		mg/kg	8.52	1.31	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Manganese, Total	87.5		mg/kg	0.852	0.135	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.078	0.016	1	06/08/18 16:02	06/08/18 17:50	EPA 7471B	1,7471B	EA
Nickel, Total	8.38		mg/kg	2.13	0.206	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Potassium, Total	470		mg/kg	213	12.3	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.70	0.220	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.852	0.241	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Sodium, Total	129	J	mg/kg	170	2.68	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.70	0.268	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Vanadium, Total	8.09		mg/kg	0.852	0.173	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
Zinc, Total	14.6		mg/kg	4.26	0.250	2	06/07/18 19:36	06/08/18 17:30	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.4		mg/kg	0.91	0.91	1		06/09/18 00:05	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03
 Client ID: SB04_1-3
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:34
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2010		mg/kg	8.36	2.26	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Antimony, Total	1.60	J	mg/kg	4.18	0.318	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Arsenic, Total	5.71		mg/kg	0.836	0.174	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Barium, Total	62.1		mg/kg	0.836	0.145	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Beryllium, Total	0.142	J	mg/kg	0.418	0.028	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Cadmium, Total	0.351	J	mg/kg	0.836	0.082	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Calcium, Total	16200		mg/kg	8.36	2.93	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Chromium, Total	7.20		mg/kg	0.836	0.080	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Cobalt, Total	3.74		mg/kg	1.67	0.139	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Copper, Total	66.7		mg/kg	0.836	0.216	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Iron, Total	6590		mg/kg	4.18	0.755	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Lead, Total	135		mg/kg	4.18	0.224	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Magnesium, Total	966		mg/kg	8.36	1.29	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Manganese, Total	63.4		mg/kg	0.836	0.133	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Mercury, Total	0.220		mg/kg	0.071	0.015	1	06/06/18 09:30	06/07/18 18:31	EPA 7471B	1,7471B	EA
Nickel, Total	10.8		mg/kg	2.09	0.202	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Potassium, Total	669		mg/kg	209	12.0	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.67	0.216	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.836	0.237	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Sodium, Total	1020		mg/kg	167	2.63	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.67	0.263	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Vanadium, Total	14.4		mg/kg	0.836	0.170	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
Zinc, Total	104		mg/kg	4.18	0.245	2	06/06/18 21:30	06/08/18 01:02	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.2		mg/kg	0.88	0.88	1		06/08/18 01:02	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04
 Client ID: SB04_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:42
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5100		mg/kg	9.23	2.49	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Antimony, Total	0.544	J	mg/kg	4.61	0.351	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Arsenic, Total	5.08		mg/kg	0.923	0.192	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Barium, Total	98.9		mg/kg	0.923	0.160	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Beryllium, Total	0.286	J	mg/kg	0.461	0.030	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Cadmium, Total	0.304	J	mg/kg	0.923	0.090	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Calcium, Total	8010		mg/kg	9.23	3.23	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Chromium, Total	11.7		mg/kg	0.923	0.089	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Cobalt, Total	4.58		mg/kg	1.84	0.153	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Copper, Total	23.9		mg/kg	0.923	0.238	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Iron, Total	10700		mg/kg	4.61	0.833	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Lead, Total	322		mg/kg	4.61	0.247	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Magnesium, Total	2410		mg/kg	9.23	1.42	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Manganese, Total	330		mg/kg	0.923	0.147	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Mercury, Total	0.396		mg/kg	0.076	0.016	1	06/06/18 09:30	06/07/18 18:39	EPA 7471B	1,7471B	EA
Nickel, Total	10.5		mg/kg	2.31	0.223	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Potassium, Total	996		mg/kg	231	13.3	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.84	0.238	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.923	0.261	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Sodium, Total	316		mg/kg	184	2.91	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.84	0.291	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Vanadium, Total	14.0		mg/kg	0.923	0.187	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
Zinc, Total	78.2		mg/kg	4.61	0.270	2	06/06/18 21:30	06/08/18 01:20	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11	J	mg/kg	0.96	0.96	1		06/08/18 01:20	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05
 Client ID: SB04_10-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 09:55
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5640		mg/kg	8.82	2.38	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.41	0.335	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Arsenic, Total	1.60		mg/kg	0.882	0.183	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Barium, Total	39.8		mg/kg	0.882	0.153	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Beryllium, Total	0.300	J	mg/kg	0.441	0.029	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Cadmium, Total	0.265	J	mg/kg	0.882	0.086	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Calcium, Total	2180		mg/kg	8.82	3.09	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Chromium, Total	13.4		mg/kg	0.882	0.085	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Cobalt, Total	5.10		mg/kg	1.76	0.146	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Copper, Total	13.1		mg/kg	0.882	0.228	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Iron, Total	11200		mg/kg	4.41	0.796	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Lead, Total	8.94		mg/kg	4.41	0.236	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Magnesium, Total	2650		mg/kg	8.82	1.36	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Manganese, Total	364		mg/kg	0.882	0.140	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Mercury, Total	0.021	J	mg/kg	0.072	0.015	1	06/06/18 09:30	06/07/18 18:40	EPA 7471B	1,7471B	EA
Nickel, Total	12.0		mg/kg	2.20	0.213	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Potassium, Total	871		mg/kg	220	12.7	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.76	0.228	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.882	0.250	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Sodium, Total	192		mg/kg	176	2.78	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Thallium, Total	0.291	J	mg/kg	1.76	0.278	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Vanadium, Total	16.5		mg/kg	0.882	0.179	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
Zinc, Total	21.3		mg/kg	4.41	0.258	2	06/06/18 21:30	06/08/18 01:25	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	13		mg/kg	0.91	0.91	1		06/08/18 01:25	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06
 Client ID: SB05_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:30
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2630		mg/kg	8.72	2.35	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Antimony, Total	0.436	J	mg/kg	4.36	0.331	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Arsenic, Total	3.96		mg/kg	0.872	0.181	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Barium, Total	47.6		mg/kg	0.872	0.152	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Beryllium, Total	0.139	J	mg/kg	0.436	0.029	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Cadmium, Total	0.235	J	mg/kg	0.872	0.085	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Calcium, Total	33000		mg/kg	8.72	3.05	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Chromium, Total	4.58		mg/kg	0.872	0.084	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Cobalt, Total	3.27		mg/kg	1.74	0.145	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Copper, Total	14.9		mg/kg	0.872	0.225	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Iron, Total	4300		mg/kg	4.36	0.787	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Lead, Total	150		mg/kg	4.36	0.234	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Magnesium, Total	2210		mg/kg	8.72	1.34	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Manganese, Total	113		mg/kg	0.872	0.139	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Mercury, Total	0.053	J	mg/kg	0.072	0.015	1	06/06/18 09:30	06/07/18 18:42	EPA 7471B	1,7471B	EA
Nickel, Total	8.55		mg/kg	2.18	0.211	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Potassium, Total	886		mg/kg	218	12.6	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.74	0.225	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.872	0.247	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Sodium, Total	841		mg/kg	174	2.75	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.74	0.275	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Vanadium, Total	8.13		mg/kg	0.872	0.177	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
Zinc, Total	76.5		mg/kg	4.36	0.255	2	06/06/18 21:30	06/08/18 01:29	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	4.6		mg/kg	0.92	0.92	1		06/08/18 01:29	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07
 Client ID: SB05_7-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:40
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3530		mg/kg	8.90	2.40	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Antimony, Total	2.08	J	mg/kg	4.45	0.338	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Arsenic, Total	10.8		mg/kg	0.890	0.185	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Barium, Total	155		mg/kg	0.890	0.155	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Beryllium, Total	0.098	J	mg/kg	0.445	0.029	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Cadmium, Total	2.30		mg/kg	0.890	0.087	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Calcium, Total	95400		mg/kg	89.0	31.1	20	06/06/18 21:30	06/08/18 03:18	EPA 3050B	1,6010C	AB
Chromium, Total	22.9		mg/kg	0.890	0.085	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Cobalt, Total	3.01		mg/kg	1.78	0.148	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Copper, Total	24.8		mg/kg	0.890	0.230	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Iron, Total	11000		mg/kg	4.45	0.803	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Lead, Total	5650		mg/kg	4.45	0.238	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Magnesium, Total	3110		mg/kg	8.90	1.37	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Manganese, Total	156		mg/kg	0.890	0.141	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Mercury, Total	1.41		mg/kg	0.073	0.016	1	06/06/18 09:30	06/07/18 18:44	EPA 7471B	1,7471B	EA
Nickel, Total	12.0		mg/kg	2.22	0.215	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Potassium, Total	1010		mg/kg	222	12.8	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.78	0.230	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.890	0.252	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Sodium, Total	1040		mg/kg	178	2.80	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.78	0.280	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Vanadium, Total	11.3		mg/kg	0.890	0.180	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
Zinc, Total	3000		mg/kg	4.45	0.261	2	06/06/18 21:30	06/08/18 01:34	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	23		mg/kg	0.93	0.93	1		06/08/18 01:34	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08
 Client ID: SB05_11-12
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:56
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5090		mg/kg	8.97	2.42	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.49	0.341	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Arsenic, Total	1.32		mg/kg	0.897	0.187	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Barium, Total	33.9		mg/kg	0.897	0.156	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Beryllium, Total	0.269	J	mg/kg	0.449	0.030	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Cadmium, Total	0.260	J	mg/kg	0.897	0.088	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Calcium, Total	2060		mg/kg	8.97	3.14	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Chromium, Total	9.98		mg/kg	0.897	0.086	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Cobalt, Total	5.29		mg/kg	1.79	0.149	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Copper, Total	19.8		mg/kg	0.897	0.232	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Iron, Total	10800		mg/kg	4.49	0.810	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Lead, Total	6.42		mg/kg	4.49	0.240	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Magnesium, Total	2600		mg/kg	8.97	1.38	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Manganese, Total	329		mg/kg	0.897	0.143	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.072	0.015	1	06/06/18 09:30	06/07/18 18:50	EPA 7471B	1,7471B	EA
Nickel, Total	12.9		mg/kg	2.24	0.217	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Potassium, Total	758		mg/kg	224	12.9	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.79	0.232	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.897	0.254	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Sodium, Total	187		mg/kg	179	2.83	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.79	0.283	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Vanadium, Total	13.8		mg/kg	0.897	0.182	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
Zinc, Total	20.1		mg/kg	4.49	0.263	2	06/06/18 21:30	06/08/18 01:56	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.92	0.92	1		06/08/18 01:56	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09
 Client ID: SB06_0-2
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6180		mg/kg	8.59	2.32	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Antimony, Total	0.558	J	mg/kg	4.30	0.326	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Arsenic, Total	4.18		mg/kg	0.859	0.179	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Barium, Total	78.9		mg/kg	0.859	0.150	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Beryllium, Total	0.335	J	mg/kg	0.430	0.028	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Cadmium, Total	0.309	J	mg/kg	0.859	0.084	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Calcium, Total	8750		mg/kg	8.59	3.01	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Chromium, Total	13.9		mg/kg	0.859	0.083	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Cobalt, Total	5.17		mg/kg	1.72	0.143	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Copper, Total	35.6		mg/kg	0.859	0.222	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Iron, Total	12000		mg/kg	4.30	0.776	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Lead, Total	334		mg/kg	4.30	0.230	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Magnesium, Total	2450		mg/kg	8.59	1.32	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Manganese, Total	270		mg/kg	0.859	0.137	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Mercury, Total	6.28		mg/kg	0.345	0.073	5	06/06/18 09:30	06/07/18 21:17	EPA 7471B	1,7471B	EA
Nickel, Total	11.4		mg/kg	2.15	0.208	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Potassium, Total	882		mg/kg	215	12.4	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.72	0.222	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.859	0.243	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Sodium, Total	142	J	mg/kg	172	2.71	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Thallium, Total	0.275	J	mg/kg	1.72	0.271	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Vanadium, Total	17.7		mg/kg	0.859	0.174	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
Zinc, Total	62.6		mg/kg	4.30	0.252	2	06/06/18 21:30	06/08/18 02:01	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14		mg/kg	0.88	0.88	1		06/08/18 02:01	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10
 Client ID: SB06_6-8
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:08
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4690		mg/kg	8.38	2.26	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.19	0.318	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Arsenic, Total	4.21		mg/kg	0.838	0.174	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Barium, Total	90.2		mg/kg	0.838	0.146	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Beryllium, Total	0.209	J	mg/kg	0.419	0.028	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Cadmium, Total	0.235	J	mg/kg	0.838	0.082	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Calcium, Total	14200		mg/kg	8.38	2.93	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Chromium, Total	10.0		mg/kg	0.838	0.080	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Cobalt, Total	3.64		mg/kg	1.68	0.139	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Copper, Total	17.7		mg/kg	0.838	0.216	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Iron, Total	9870		mg/kg	4.19	0.757	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Lead, Total	458		mg/kg	4.19	0.224	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Magnesium, Total	1640		mg/kg	8.38	1.29	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Manganese, Total	275		mg/kg	0.838	0.133	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Mercury, Total	0.426		mg/kg	0.070	0.015	1	06/06/18 09:30	06/07/18 18:54	EPA 7471B	1,7471B	EA
Nickel, Total	8.37		mg/kg	2.09	0.203	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Potassium, Total	698		mg/kg	209	12.1	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.68	0.216	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.838	0.237	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Sodium, Total	180		mg/kg	168	2.64	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.68	0.264	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Vanadium, Total	16.2		mg/kg	0.838	0.170	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
Zinc, Total	25.4		mg/kg	4.19	0.246	2	06/06/18 21:30	06/08/18 02:05	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10		mg/kg	0.87	0.87	1		06/08/18 02:05	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11
 Client ID: SB06_12-14
 Sample Location: MANHATTAN

Date Collected: 06/01/18 12:15
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3390		mg/kg	9.18	2.48	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.59	0.349	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Arsenic, Total	1.17		mg/kg	0.918	0.191	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Barium, Total	25.3		mg/kg	0.918	0.160	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Beryllium, Total	0.174	J	mg/kg	0.459	0.030	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Cadmium, Total	0.174	J	mg/kg	0.918	0.090	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Calcium, Total	7040		mg/kg	9.18	3.21	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Chromium, Total	6.92		mg/kg	0.918	0.088	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Cobalt, Total	3.36		mg/kg	1.84	0.152	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Copper, Total	12.7		mg/kg	0.918	0.237	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Iron, Total	8070		mg/kg	4.59	0.829	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Lead, Total	5.23		mg/kg	4.59	0.246	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Magnesium, Total	1760		mg/kg	9.18	1.41	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Manganese, Total	188		mg/kg	0.918	0.146	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.074	0.016	1	06/06/18 09:30	06/07/18 18:56	EPA 7471B	1,7471B	EA
Nickel, Total	6.68		mg/kg	2.30	0.222	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Potassium, Total	555		mg/kg	230	13.2	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.84	0.237	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.918	0.260	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Sodium, Total	187		mg/kg	184	2.89	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.84	0.289	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Vanadium, Total	14.6		mg/kg	0.918	0.186	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
Zinc, Total	15.0		mg/kg	4.59	0.269	2	06/06/18 21:30	06/08/18 02:10	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	6.9		mg/kg	0.94	0.94	1		06/08/18 02:10	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12
 Client ID: SBDUP02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	8240		mg/kg	9.00	2.43	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Antimony, Total	ND		mg/kg	4.50	0.342	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Arsenic, Total	2.68		mg/kg	0.900	0.187	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Barium, Total	39.9		mg/kg	0.900	0.157	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Beryllium, Total	0.351	J	mg/kg	0.450	0.030	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Cadmium, Total	0.324	J	mg/kg	0.900	0.088	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Calcium, Total	975		mg/kg	9.00	3.15	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Chromium, Total	11.8		mg/kg	0.900	0.086	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Cobalt, Total	6.19		mg/kg	1.80	0.149	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Copper, Total	14.2		mg/kg	0.900	0.232	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Iron, Total	14500		mg/kg	4.50	0.813	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Lead, Total	7.22		mg/kg	4.50	0.241	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Magnesium, Total	2830		mg/kg	9.00	1.39	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Manganese, Total	243		mg/kg	0.900	0.143	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Mercury, Total	ND		mg/kg	0.072	0.015	1	06/06/18 09:30	06/07/18 18:58	EPA 7471B	1,7471B	EA
Nickel, Total	14.2		mg/kg	2.25	0.218	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Potassium, Total	625		mg/kg	225	13.0	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Selenium, Total	ND		mg/kg	1.80	0.232	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Silver, Total	ND		mg/kg	0.900	0.255	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Sodium, Total	187		mg/kg	180	2.84	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Thallium, Total	ND		mg/kg	1.80	0.284	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Vanadium, Total	15.3		mg/kg	0.900	0.183	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
Zinc, Total	28.2		mg/kg	4.50	0.264	2	06/06/18 21:30	06/08/18 02:14	EPA 3050B	1,6010C	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	12		mg/kg	0.92	0.92	1		06/08/18 02:14	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4.67		mg/l	0.0100	0.00327	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Antimony, Total	0.00044	J	mg/l	0.00400	0.00042	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Arsenic, Total	0.01227		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Barium, Total	0.2664		mg/l	0.00050	0.00017	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Beryllium, Total	0.00044	J	mg/l	0.00050	0.00010	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Cadmium, Total	0.00010	J	mg/l	0.00020	0.00005	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Calcium, Total	37.4		mg/l	0.100	0.0394	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Chromium, Total	0.01117		mg/l	0.00100	0.00017	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00368		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Copper, Total	0.03887		mg/l	0.00100	0.00038	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Iron, Total	22.6		mg/l	0.0500	0.0191	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Lead, Total	0.01369		mg/l	0.00100	0.00034	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Magnesium, Total	7.76		mg/l	0.0700	0.0242	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Manganese, Total	2.882		mg/l	0.00100	0.00044	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	06/04/18 10:40	06/04/18 19:32	EPA 7470A	1,7470A	EA
Nickel, Total	0.01022		mg/l	0.00200	0.00055	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Potassium, Total	4.40		mg/l	0.100	0.0309	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Sodium, Total	5.94		mg/l	0.100	0.0293	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Vanadium, Total	0.01407		mg/l	0.00500	0.00157	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
Zinc, Total	0.01873		mg/l	0.01000	0.00341	1	06/06/18 14:00	06/07/18 13:45	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	0.011		mg/l	0.010	0.010	1		06/07/18 13:45	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13
 Client ID: TW03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 11:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.0314		mg/l	0.0100	0.00327	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00108	J	mg/l	0.00400	0.00042	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.01186		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.1646		mg/l	0.00050	0.00017	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Calcium, Dissolved	38.2		mg/l	0.100	0.0394	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00051	J	mg/l	0.00100	0.00017	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00020	J	mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Iron, Dissolved	14.8		mg/l	0.0500	0.0191	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	5.84		mg/l	0.0700	0.0242	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Manganese, Dissolved	2.263		mg/l	0.00100	0.00044	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	06/05/18 11:19	06/05/18 20:19	EPA 7470A	1,7470A	EA
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Potassium, Dissolved	3.85		mg/l	0.100	0.0309	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Sodium, Dissolved	6.89		mg/l	0.100	0.0293	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/07/18 08:00	06/07/18 15:30	EPA 3005A	1,6020A	AM



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.552		mg/l	0.0100	0.00327	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Antimony, Total	0.00078	J	mg/l	0.00400	0.00042	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Arsenic, Total	0.1773		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Barium, Total	0.5675		mg/l	0.00050	0.00017	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Calcium, Total	334.		mg/l	0.100	0.0394	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Chromium, Total	0.00328		mg/l	0.00100	0.00017	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00192		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Copper, Total	0.00203		mg/l	0.00100	0.00038	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Iron, Total	4.86		mg/l	0.0500	0.0191	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Lead, Total	0.00937		mg/l	0.00100	0.00034	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Magnesium, Total	69.6		mg/l	0.0700	0.0242	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Manganese, Total	10.96		mg/l	0.05000	0.02200	50	06/06/18 14:00	06/08/18 10:02	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	06/04/18 10:40	06/04/18 19:34	EPA 7470A	1,7470A	EA
Nickel, Total	0.00468		mg/l	0.00200	0.00055	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Potassium, Total	59.3		mg/l	0.100	0.0309	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Sodium, Total	618.		mg/l	5.00	1.46	50	06/06/18 14:00	06/08/18 10:02	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Vanadium, Total	0.00219	J	mg/l	0.00500	0.00157	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
Zinc, Total	0.00498	J	mg/l	0.01000	0.00341	1	06/06/18 14:00	06/07/18 16:22	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		06/07/18 16:22	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14
 Client ID: TW05_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 13:30
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00442	J	mg/l	0.0100	0.00327	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00077	J	mg/l	0.00400	0.00042	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.2210		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.6510		mg/l	0.00050	0.00017	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Calcium, Dissolved	336.		mg/l	0.100	0.0394	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00073	J	mg/l	0.00100	0.00017	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00114		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00092	J	mg/l	0.00100	0.00038	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Iron, Dissolved	5.07		mg/l	0.0500	0.0191	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00051	J	mg/l	0.00100	0.00034	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	70.8		mg/l	0.0700	0.0242	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Manganese, Dissolved	11.74		mg/l	0.05000	0.02200	50	06/07/18 08:00	06/07/18 19:41	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	06/05/18 11:19	06/05/18 20:28	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00260		mg/l	0.00200	0.00055	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Potassium, Dissolved	58.6		mg/l	0.100	0.0309	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Sodium, Dissolved	602.		mg/l	5.00	1.46	50	06/07/18 08:00	06/07/18 19:41	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/07/18 08:00	06/07/18 15:34	EPA 3005A	1,6020A	AM



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.563		mg/l	0.0100	0.00327	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Antimony, Total	0.00087	J	mg/l	0.00400	0.00042	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Arsenic, Total	0.1830		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Barium, Total	0.5740		mg/l	0.00050	0.00017	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Calcium, Total	341.		mg/l	0.100	0.0394	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Chromium, Total	0.00309		mg/l	0.00100	0.00017	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Cobalt, Total	0.00210		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Copper, Total	0.00242		mg/l	0.00100	0.00038	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Iron, Total	4.89		mg/l	0.0500	0.0191	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Lead, Total	0.01207		mg/l	0.00100	0.00034	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Magnesium, Total	71.4		mg/l	0.0700	0.0242	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Manganese, Total	10.77		mg/l	0.05000	0.02200	50	06/06/18 14:00	06/08/18 10:06	EPA 3005A	1,6020A	AM
Mercury, Total	ND		mg/l	0.00020	0.00006	1	06/04/18 10:40	06/04/18 19:36	EPA 7470A	1,7470A	EA
Nickel, Total	0.00409		mg/l	0.00200	0.00055	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Potassium, Total	60.2		mg/l	0.100	0.0309	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Sodium, Total	600.		mg/l	5.00	1.46	50	06/06/18 14:00	06/08/18 10:06	EPA 3005A	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Vanadium, Total	0.00218	J	mg/l	0.00500	0.00157	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
Zinc, Total	0.00542	J	mg/l	0.01000	0.00341	1	06/06/18 14:00	06/07/18 16:46	EPA 3005A	1,6020A	AM
General Chemistry - Mansfield Lab											
Chromium, Trivalent	ND		mg/l	0.010	0.010	1		06/07/18 16:46	NA	107,-	



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15
 Client ID: TWDUP01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 00:00
 Date Received: 06/01/18
 Field Prep: Refer to COC

Sample Depth:
 Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab											
Aluminum, Dissolved	0.00630	J	mg/l	0.0100	0.00327	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Antimony, Dissolved	0.00066	J	mg/l	0.00400	0.00042	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Arsenic, Dissolved	0.1938		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Barium, Dissolved	0.5692		mg/l	0.00050	0.00017	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Calcium, Dissolved	342.		mg/l	0.100	0.0394	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Chromium, Dissolved	0.00144		mg/l	0.00100	0.00017	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Cobalt, Dissolved	0.00162		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Copper, Dissolved	0.00038	J	mg/l	0.00100	0.00038	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Iron, Dissolved	4.37		mg/l	0.0500	0.0191	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Lead, Dissolved	0.00063	J	mg/l	0.00100	0.00034	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Magnesium, Dissolved	71.3		mg/l	0.0700	0.0242	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Manganese, Dissolved	10.87		mg/l	0.05000	0.02200	50	06/07/18 08:00	06/08/18 10:45	EPA 3005A	1,6020A	AM
Mercury, Dissolved	ND		mg/l	0.00020	0.00006	1	06/05/18 11:19	06/05/18 20:29	EPA 7470A	1,7470A	EA
Nickel, Dissolved	0.00323		mg/l	0.00200	0.00055	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Potassium, Dissolved	60.0		mg/l	0.100	0.0309	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Sodium, Dissolved	591.		mg/l	5.00	1.46	50	06/07/18 08:00	06/08/18 10:45	EPA 3005A	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Vanadium, Dissolved	ND		mg/l	0.00500	0.00157	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM
Zinc, Dissolved	ND		mg/l	0.01000	0.00341	1	06/07/18 08:00	06/07/18 16:26	EPA 3005A	1,6020A	AM



Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-15 Batch: WG1122123-1									
Mercury, Total	ND	mg/l	0.00020	0.00006	1	06/04/18 10:40	06/04/18 19:08	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 13-15 Batch: WG1122568-1									
Mercury, Dissolved	ND	mg/l	0.00020	0.00006	1	06/05/18 11:19	06/05/18 20:15	1,7470A	EA

Prep Information

Digestion Method: EPA 7470A

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-12 Batch: WG1122868-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	06/06/18 09:30	06/07/18 18:27	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 13-15 Batch: WG1123102-1									
Aluminum, Total	ND	mg/l	0.0100	0.00327	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Antimony, Total	0.00138 J	mg/l	0.00400	0.00042	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Arsenic, Total	ND	mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Barium, Total	ND	mg/l	0.00050	0.00017	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Beryllium, Total	ND	mg/l	0.00050	0.00010	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Cadmium, Total	ND	mg/l	0.00020	0.00005	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM



Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis Batch Quality Control

Calcium, Total	0.0590	J	mg/l	0.100	0.0394	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Chromium, Total	ND		mg/l	0.00100	0.00017	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Copper, Total	ND		mg/l	0.00100	0.00038	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Iron, Total	0.0298	J	mg/l	0.0500	0.0191	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Lead, Total	ND		mg/l	0.00100	0.00034	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Manganese, Total	0.00054	J	mg/l	0.00100	0.00044	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Nickel, Total	ND		mg/l	0.00200	0.00055	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Potassium, Total	ND		mg/l	0.100	0.0309	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Selenium, Total	ND		mg/l	0.00500	0.00173	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Silver, Total	ND		mg/l	0.00040	0.00016	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Sodium, Total	ND		mg/l	0.100	0.0293	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Thallium, Total	ND		mg/l	0.00050	0.00014	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM
Zinc, Total	ND		mg/l	0.01000	0.00341	1	06/06/18 14:00	06/07/18 16:42	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03-12 Batch: WG1123199-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Iron, Total	1.03	J	mg/kg	2.00	0.361	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB



Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis Batch Quality Control

Manganese, Total	0.092	J	mg/kg	0.400	0.064	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Potassium, Total	ND		mg/kg	100	5.76	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/06/18 21:30	06/08/18 00:49	1,6010C	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Dissolved Metals - Mansfield Lab for sample(s): 13-15 Batch: WG1123373-1										
Aluminum, Dissolved	ND		mg/l	0.0100	0.00327	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Antimony, Dissolved	0.00085	J	mg/l	0.00400	0.00042	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Arsenic, Dissolved	ND		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Barium, Dissolved	ND		mg/l	0.00050	0.00017	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Beryllium, Dissolved	ND		mg/l	0.00050	0.00010	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Cadmium, Dissolved	ND		mg/l	0.00020	0.00005	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Calcium, Dissolved	ND		mg/l	0.100	0.0394	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Chromium, Dissolved	ND		mg/l	0.00100	0.00017	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Cobalt, Dissolved	ND		mg/l	0.00050	0.00016	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Copper, Dissolved	ND		mg/l	0.00100	0.00038	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Iron, Dissolved	0.0218	J	mg/l	0.0500	0.0191	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Lead, Dissolved	ND		mg/l	0.00100	0.00034	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Magnesium, Dissolved	ND		mg/l	0.0700	0.0242	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Manganese, Dissolved	ND		mg/l	0.00100	0.00044	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Nickel, Dissolved	ND		mg/l	0.00200	0.00055	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Potassium, Dissolved	ND		mg/l	0.100	0.0309	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Selenium, Dissolved	ND		mg/l	0.00500	0.00173	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Silver, Dissolved	ND		mg/l	0.00040	0.00016	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Sodium, Dissolved	ND		mg/l	0.100	0.0293	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Thallium, Dissolved	ND		mg/l	0.00050	0.00014	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM



Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Method Blank Analysis Batch Quality Control

Vanadium, Dissolved	ND	mg/l	0.00500	0.00157	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM
Zinc, Dissolved	ND	mg/l	0.01000	0.00341	1	06/07/18 08:00	06/07/18 15:06	1,6020A	AM

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1123666-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Calcium, Total	1.87	J	mg/kg	4.00	1.40	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Potassium, Total	ND		mg/kg	100	5.76	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/07/18 19:36	06/08/18 14:53	1,6010C	LC

Prep Information

Digestion Method: EPA 3050B



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1124043-1									
Mercury, Total	ND	mg/kg	0.083	0.018	1	06/08/18 16:02	06/08/18 17:47	1,7471B	EA

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Lab Number: L1820339
Report Date: 06/11/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 Batch: WG1122123-2								
Mercury, Total	101		-		80-120	-		
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 Batch: WG1122568-2								
Mercury, Dissolved	101		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 03-12 Batch: WG1122868-2 SRM Lot Number: D098-540								
Mercury, Total	91		-		50-149	-		



Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 Batch: WG1123102-2					
Aluminum, Total	101	-	80-120	-	
Antimony, Total	104	-	80-120	-	
Arsenic, Total	109	-	80-120	-	
Barium, Total	103	-	80-120	-	
Beryllium, Total	102	-	80-120	-	
Cadmium, Total	111	-	80-120	-	
Calcium, Total	90	-	80-120	-	
Chromium, Total	96	-	80-120	-	
Cobalt, Total	98	-	80-120	-	
Copper, Total	97	-	80-120	-	
Iron, Total	104	-	80-120	-	
Lead, Total	112	-	80-120	-	
Magnesium, Total	100	-	80-120	-	
Manganese, Total	96	-	80-120	-	
Nickel, Total	100	-	80-120	-	
Potassium, Total	96	-	80-120	-	
Selenium, Total	115	-	80-120	-	
Silver, Total	97	-	80-120	-	
Sodium, Total	99	-	80-120	-	
Thallium, Total	104	-	80-120	-	
Vanadium, Total	95	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 Batch: WG1123102-2					
Zinc, Total	107	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-12 Batch: WG1123199-2 SRM Lot Number: D098-540					
Aluminum, Total	78	-	47-153	-	
Antimony, Total	166	-	6-194	-	
Arsenic, Total	109	-	83-117	-	
Barium, Total	102	-	82-118	-	
Beryllium, Total	104	-	83-117	-	
Cadmium, Total	108	-	82-117	-	
Calcium, Total	103	-	81-118	-	
Chromium, Total	106	-	83-119	-	
Cobalt, Total	106	-	84-116	-	
Copper, Total	106	-	84-116	-	
Iron, Total	108	-	60-140	-	
Lead, Total	104	-	82-117	-	
Magnesium, Total	94	-	76-124	-	
Manganese, Total	102	-	82-118	-	
Nickel, Total	104	-	82-117	-	
Potassium, Total	89	-	69-131	-	
Selenium, Total	108	-	78-121	-	
Silver, Total	110	-	80-120	-	
Sodium, Total	101	-	74-126	-	
Thallium, Total	107	-	80-119	-	
Vanadium, Total	107	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-12 Batch: WG1123199-2 SRM Lot Number: D098-540					
Zinc, Total	104	-	81-119	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 Batch: WG1123373-2					
Aluminum, Dissolved	104	-	80-120	-	
Antimony, Dissolved	97	-	80-120	-	
Arsenic, Dissolved	107	-	80-120	-	
Barium, Dissolved	101	-	80-120	-	
Beryllium, Dissolved	102	-	80-120	-	
Cadmium, Dissolved	108	-	80-120	-	
Calcium, Dissolved	91	-	80-120	-	
Chromium, Dissolved	97	-	80-120	-	
Cobalt, Dissolved	99	-	80-120	-	
Copper, Dissolved	100	-	80-120	-	
Iron, Dissolved	105	-	80-120	-	
Lead, Dissolved	110	-	80-120	-	
Magnesium, Dissolved	102	-	80-120	-	
Manganese, Dissolved	97	-	80-120	-	
Nickel, Dissolved	99	-	80-120	-	
Potassium, Dissolved	101	-	80-120	-	
Selenium, Dissolved	117	-	80-120	-	
Silver, Dissolved	97	-	80-120	-	
Sodium, Dissolved	100	-	80-120	-	
Thallium, Dissolved	102	-	80-120	-	
Vanadium, Dissolved	98	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 Batch: WG1123373-2					
Zinc, Dissolved	110	-	80-120	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1123666-2 SRM Lot Number: D098-540					
Aluminum, Total	69	-	47-153	-	
Antimony, Total	146	-	6-194	-	
Arsenic, Total	92	-	83-117	-	
Barium, Total	88	-	82-118	-	
Beryllium, Total	88	-	83-117	-	
Cadmium, Total	92	-	82-117	-	
Calcium, Total	93	-	81-118	-	
Chromium, Total	86	-	83-119	-	
Cobalt, Total	92	-	84-116	-	
Copper, Total	90	-	84-116	-	
Iron, Total	87	-	60-140	-	
Lead, Total	90	-	82-117	-	
Magnesium, Total	81	-	76-124	-	
Manganese, Total	91	-	82-118	-	
Nickel, Total	91	-	82-117	-	
Potassium, Total	80	-	69-131	-	
Selenium, Total	93	-	78-121	-	
Silver, Total	91	-	80-120	-	
Sodium, Total	87	-	74-126	-	
Thallium, Total	91	-	80-119	-	
Vanadium, Total	86	-	79-121	-	

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1123666-2 SRM Lot Number: D098-540					
Zinc, Total	90	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1124043-2 SRM Lot Number: D098-540					
Mercury, Total	113	-	50-149	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1122123-3 QC Sample: L1820057-01 Client ID: MS Sample												
Mercury, Total	ND	0.005	0.00486	97		-	-		75-125	-		20
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1122568-3 QC Sample: L1820339-13 Client ID: TW03_060118												
Mercury, Dissolved	ND	0.005	0.00466	93		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 03-12 QC Batch ID: WG1122868-3 QC Sample: L1820339-03 Client ID: SB04_1-3												
Mercury, Total	0.220	0.142	0.292	51	Q	-	-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1123102-3 WG1123102-4 QC Sample: L1820286-01 Client ID: MS Sample									
Aluminum, Total	ND	2	1.99	100	2.01	100	75-125	1	20
Antimony, Total	0.0031J	0.5	0.6036	121	0.6037	121	75-125	0	20
Arsenic, Total	0.02173	0.12	0.1490	106	0.1518	108	75-125	2	20
Barium, Total	0.6890	2	2.663	99	2.705	101	75-125	2	20
Beryllium, Total	ND	0.05	0.05157	103	0.05183	104	75-125	1	20
Cadmium, Total	ND	0.051	0.05655	111	0.05621	110	75-125	1	20
Calcium, Total	158.	10	165	70	Q 171	130	Q 75-125	4	20
Chromium, Total	0.0002J	0.2	0.1888	94	0.1950	98	75-125	3	20
Cobalt, Total	0.0026	0.5	0.4899	97	0.5007	100	75-125	2	20
Copper, Total	ND	0.25	0.2491	100	0.2576	103	75-125	3	20
Iron, Total	6.63	1	7.64	101	7.83	120	75-125	2	20
Lead, Total	ND	0.51	0.5500	108	0.5612	110	75-125	2	20
Magnesium, Total	31.7	10	43.0	113	43.4	117	75-125	1	20
Manganese, Total	0.6827	0.5	1.154	94	1.186	101	75-125	3	20
Nickel, Total	0.0017J	0.5	0.4896	98	0.5018	100	75-125	2	20
Potassium, Total	9.06	10	18.2	91	19.0	99	75-125	4	20
Selenium, Total	ND	0.12	0.132	110	0.131	109	75-125	1	20
Silver, Total	ND	0.05	0.04732	95	0.04833	97	75-125	2	20
Sodium, Total	98.5	10	126	275	Q 129	305	Q 75-125	2	20
Thallium, Total	ND	0.12	0.1213	101	0.1221	102	75-125	1	20
Vanadium, Total	ND	0.5	0.4816	96	0.4838	97	75-125	0	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1123102-3 WG1123102-4 QC Sample: L1820286-01 Client ID: MS Sample									
Zinc, Total	ND	0.5	0.5330	107	0.5391	108	75-125	1	20

Matrix Spike Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-12 QC Batch ID: WG1123199-3 QC Sample: L1820339-03 Client ID: SB04_1-3									
Aluminum, Total	2010	169	3080	634	Q	-	75-125	-	20
Antimony, Total	1.60J	42.2	38.1	90		-	75-125	-	20
Arsenic, Total	5.71	10.1	16.4	106		-	75-125	-	20
Barium, Total	62.1	169	276	127	Q	-	75-125	-	20
Beryllium, Total	0.142J	4.22	3.95	94		-	75-125	-	20
Cadmium, Total	0.351J	4.3	4.30	100		-	75-125	-	20
Calcium, Total	16200	844	23200	830	Q	-	75-125	-	20
Chromium, Total	7.20	16.9	23.4	96		-	75-125	-	20
Cobalt, Total	3.74	42.2	39.9	86		-	75-125	-	20
Copper, Total	66.7	21.1	97.6	146	Q	-	75-125	-	20
Iron, Total	6590	84.4	7460	1030	Q	-	75-125	-	20
Lead, Total	135.	43	380	569	Q	-	75-125	-	20
Magnesium, Total	966.	844	1980	120		-	75-125	-	20
Manganese, Total	63.4	42.2	118	129	Q	-	75-125	-	20
Nickel, Total	10.8	42.2	45.6	82		-	75-125	-	20
Potassium, Total	669.	844	1510	100		-	75-125	-	20
Selenium, Total	ND	10.1	9.42	93		-	75-125	-	20
Silver, Total	ND	25.3	24.5	97		-	75-125	-	20
Sodium, Total	1020	844	1850	98		-	75-125	-	20
Thallium, Total	ND	10.1	8.74	86		-	75-125	-	20
Vanadium, Total	14.4	42.2	54.8	96		-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-12 QC Batch ID: WG1123199-3 QC Sample: L1820339-03 Client ID: SB04_1-3									
Zinc, Total	104.	42.2	157	126	Q	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1123373-3 QC Sample: L1820339-13 Client ID: TW03_060118									
Aluminum, Dissolved	0.0314	2	2.14	105	-	-	75-125	-	20
Antimony, Dissolved	0.00108J	0.5	0.5917	118	-	-	75-125	-	20
Arsenic, Dissolved	0.01186	0.12	0.1455	111	-	-	75-125	-	20
Barium, Dissolved	0.1646	2	2.242	104	-	-	75-125	-	20
Beryllium, Dissolved	ND	0.05	0.05225	104	-	-	75-125	-	20
Cadmium, Dissolved	ND	0.051	0.05519	108	-	-	75-125	-	20
Calcium, Dissolved	38.2	10	48.2	100	-	-	75-125	-	20
Chromium, Dissolved	0.00051J	0.2	0.1934	97	-	-	75-125	-	20
Cobalt, Dissolved	0.00020J	0.5	0.4957	99	-	-	75-125	-	20
Copper, Dissolved	ND	0.25	0.2407	96	-	-	75-125	-	20
Iron, Dissolved	14.8	1	16.1	130	Q	-	75-125	-	20
Lead, Dissolved	ND	0.51	0.5626	110	-	-	75-125	-	20
Magnesium, Dissolved	5.84	10	16.4	106	-	-	75-125	-	20
Manganese, Dissolved	2.263	0.5	2.806	109	-	-	75-125	-	20
Nickel, Dissolved	ND	0.5	0.4834	97	-	-	75-125	-	20
Potassium, Dissolved	3.85	10	13.9	100	-	-	75-125	-	20
Selenium, Dissolved	ND	0.12	0.136	113	-	-	75-125	-	20
Silver, Dissolved	ND	0.05	0.04852	97	-	-	75-125	-	20
Sodium, Dissolved	6.89	10	16.8	99	-	-	75-125	-	20
Thallium, Dissolved	ND	0.12	0.1231	102	-	-	75-125	-	20
Vanadium, Dissolved	ND	0.5	0.4949	99	-	-	75-125	-	20

Matrix Spike Analysis
Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1123373-3 QC Sample: L1820339-13 Client ID: TW03_060118									
Zinc, Dissolved	ND	0.5	0.5504	110	-	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1123666-3 QC Sample: L1815547-39 Client ID: MS Sample									
Aluminum, Total	7080	176	7270	108	-	-	75-125	-	20
Antimony, Total	0.789J	43.9	33.2	76	-	-	75-125	-	20
Arsenic, Total	3.82	10.5	12.0	78	-	-	75-125	-	20
Barium, Total	159.	176	288	73	Q	-	75-125	-	20
Beryllium, Total	0.173J	4.39	3.53	80	-	-	75-125	-	20
Cadmium, Total	0.649	4.48	4.10	77	-	-	75-125	-	20
Calcium, Total	22300	878	14400	0	Q	-	75-125	-	20
Chromium, Total	13.3	17.6	25.9	72	Q	-	75-125	-	20
Cobalt, Total	6.67	43.9	39.7	75	-	-	75-125	-	20
Copper, Total	27.8	22	41.9	64	Q	-	75-125	-	20
Iron, Total	11600	87.8	11400	0	Q	-	75-125	-	20
Lead, Total	493.	44.8	380	0	Q	-	75-125	-	20
Magnesium, Total	7460	878	6440	0	Q	-	75-125	-	20
Manganese, Total	281.	43.9	261	0	Q	-	75-125	-	20
Nickel, Total	12.7	43.9	44.8	73	Q	-	75-125	-	20
Potassium, Total	3530	878	4690	132	Q	-	75-125	-	20
Selenium, Total	ND	10.5	7.68	73	Q	-	75-125	-	20
Silver, Total	ND	26.4	22.1	84	-	-	75-125	-	20
Sodium, Total	303.	878	976	77	-	-	75-125	-	20
Thallium, Total	ND	10.5	7.24	69	Q	-	75-125	-	20
Vanadium, Total	27.9	43.9	60.0	73	Q	-	75-125	-	20

Matrix Spike Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1123666-3 QC Sample: L1815547-39 Client ID: MS Sample									
Zinc, Total	150.	43.9	166	36	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1124043-3 QC Sample: L1820339-02 Client ID: SB06_14-16									
Mercury, Total	ND	0.161	0.184	114	-	-	80-120	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1122123-4 QC Sample: L1820057-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1122568-4 QC Sample: L1820339-13 Client ID: TW03_060118						
Mercury, Dissolved	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 03-12 QC Batch ID: WG1122868-4 QC Sample: L1820339-03 Client ID: SB04_1-3						
Mercury, Total	0.220	0.186	mg/kg	17		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-12 QC Batch ID: WG1123199-4 QC Sample: L1820339-03 Client ID: SB04_1-3					
Aluminum, Total	2010	2060	mg/kg	2	20
Antimony, Total	1.60J	3.97J	mg/kg	NC	20
Arsenic, Total	5.71	5.96	mg/kg	4	20
Barium, Total	62.1	81.9	mg/kg	28 Q	20
Beryllium, Total	0.142J	0.180J	mg/kg	NC	20
Cadmium, Total	0.351J	0.609J	mg/kg	NC	20
Calcium, Total	16200	14200	mg/kg	13	20
Chromium, Total	7.20	8.65	mg/kg	18	20
Cobalt, Total	3.74	3.86	mg/kg	3	20
Copper, Total	66.7	114	mg/kg	52 Q	20
Iron, Total	6590	13000	mg/kg	65 Q	20
Lead, Total	135.	654	mg/kg	132 Q	20
Magnesium, Total	966.	831	mg/kg	15	20
Manganese, Total	63.4	85.1	mg/kg	29 Q	20
Nickel, Total	10.8	15.2	mg/kg	34 Q	20
Potassium, Total	669.	666	mg/kg	0	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	1020	885	mg/kg	14	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03-12 QC Batch ID: WG1123199-4 QC Sample: L1820339-03 Client ID: SB04_1-3					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	14.4	10.6	mg/kg	30 Q	20
Zinc, Total	104.	154	mg/kg	39 Q	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1123373-4 QC Sample: L1820339-13 Client ID: TW03_060118					
Aluminum, Dissolved	0.0314	0.0284	mg/l	10	20
Antimony, Dissolved	0.00108J	0.00245J	mg/l	NC	20
Arsenic, Dissolved	0.01186	0.01242	mg/l	5	20
Barium, Dissolved	0.1646	0.1668	mg/l	1	20
Beryllium, Dissolved	ND	ND	mg/l	NC	20
Cadmium, Dissolved	ND	ND	mg/l	NC	20
Calcium, Dissolved	38.2	39.2	mg/l	3	20
Chromium, Dissolved	0.00051J	0.00055J	mg/l	NC	20
Cobalt, Dissolved	0.00020J	ND	mg/l	NC	20
Copper, Dissolved	ND	ND	mg/l	NC	20
Iron, Dissolved	14.8	15.1	mg/l	2	20
Lead, Dissolved	ND	ND	mg/l	NC	20
Magnesium, Dissolved	5.84	5.90	mg/l	1	20
Manganese, Dissolved	2.263	2.306	mg/l	2	20
Nickel, Dissolved	ND	ND	mg/l	NC	20
Potassium, Dissolved	3.85	3.96	mg/l	3	20
Selenium, Dissolved	ND	ND	mg/l	NC	20
Silver, Dissolved	ND	ND	mg/l	NC	20
Sodium, Dissolved	6.89	6.95	mg/l	1	20

Lab Duplicate Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Dissolved Metals - Mansfield Lab Associated sample(s): 13-15 QC Batch ID: WG1123373-4 QC Sample: L1820339-13 Client ID: TW03_060118					
Thallium, Dissolved	ND	ND	mg/l	NC	20
Vanadium, Dissolved	ND	ND	mg/l	NC	20
Zinc, Dissolved	ND	ND	mg/l	NC	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1123666-4 QC Sample: L1815547-39 Client ID: DUP Sample					
Lead, Total	493.	634	mg/kg	25 Q	20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1124043-4 QC Sample: L1820339-02 Client ID: SB06_14-16					
Mercury, Total	ND	ND	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-02

Date Collected: 06/01/18 12:20

Client ID: SB06_14-16

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	06/08/18 05:24	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/08/18 07:22	06/08/18 12:09	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.910	0.182	1	06/08/18 02:15	06/09/18 00:05	1,7196A	RM



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-03

Date Collected: 06/01/18 09:34

Client ID: SB04_1-3

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.6		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 15:30	06/06/18 11:33	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.883	0.177	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-04

Date Collected: 06/01/18 09:42

Client ID: SB04_6-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.5		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	0.28	J	mg/kg	1.1	0.24	1	06/05/18 15:30	06/06/18 11:37	1,9010C/9012B	LH
Chromium, Hexavalent	0.850	J	mg/kg	0.958	0.192	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-05

Date Collected: 06/01/18 09:55

Client ID: SB04_10-12

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.3		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 15:30	06/06/18 11:38	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.906	0.181	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-06

Date Collected: 06/01/18 10:30

Client ID: SB05_0-2

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.3		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	06/05/18 15:30	06/06/18 11:39	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.916	0.183	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-07

Date Collected: 06/01/18 10:40

Client ID: SB05_7-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.4		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	0.54	J	mg/kg	1.1	0.23	1	06/05/18 15:30	06/06/18 11:40	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.926	0.185	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-08

Date Collected: 06/01/18 10:56

Client ID: SB05_11-12

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	06/05/18 15:30	06/06/18 11:41	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-09

Date Collected: 06/01/18 12:02

Client ID: SB06_0-2

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.7		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/05/18 15:30	06/06/18 11:42	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.882	0.176	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-10

Date Collected: 06/01/18 12:08

Client ID: SB06_6-8

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.8		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	06/05/18 15:30	06/06/18 11:45	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.871	0.174	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-11

Date Collected: 06/01/18 12:15

Client ID: SB06_12-14

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.0		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 15:30	06/06/18 11:46	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.941	0.188	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-12

Date Collected: 06/01/18 00:00

Client ID: SBDUP02_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.2		%	0.100	NA	1	-	06/05/18 16:27	121,2540G	RI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/05/18 15:30	06/06/18 11:47	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.917	0.183	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-13

Date Collected: 06/01/18 11:30

Client ID: TW03_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	ND		mg/l	0.005	0.001	1	06/05/18 15:30	06/06/18 12:07	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/02/18 04:00	06/02/18 04:51	1,7196A	MA



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-14

Date Collected: 06/01/18 13:30

Client ID: TW05_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.003	J	mg/l	0.005	0.001	1	06/05/18 15:30	06/06/18 12:02	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/02/18 04:00	06/02/18 04:51	1,7196A	MA



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

SAMPLE RESULTS

Lab ID: L1820339-15

Date Collected: 06/01/18 00:00

Client ID: TWDUP01_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Refer to COC

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Cyanide, Total	0.002	J	mg/l	0.005	0.001	1	06/05/18 15:30	06/06/18 12:03	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/02/18 04:00	06/02/18 05:04	1,7196A	MA



Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 13-15 Batch: WG1121763-1										
Chromium, Hexavalent	ND		mg/l	0.010	0.003	1	06/02/18 04:00	06/02/18 04:46	1,7196A	MA
General Chemistry - Westborough Lab for sample(s): 13-15 Batch: WG1122629-1										
Cyanide, Total	ND		mg/l	0.005	0.001	1	06/05/18 15:30	06/06/18 11:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03-12 Batch: WG1122634-1										
Cyanide, Total	ND		mg/kg	0.96	0.20	1	06/05/18 15:30	06/06/18 11:10	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03-12 Batch: WG1122884-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/06/18 06:15	06/06/18 14:45	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1123747-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/08/18 02:15	06/09/18 00:05	1,7196A	RM
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1123793-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	06/08/18 07:22	06/08/18 11:20	1,9010C/9012B	LH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 13-15 Batch: WG1121763-2								
Chromium, Hexavalent	96		-		85-115	-		20
General Chemistry - Westborough Lab Associated sample(s): 13-15 Batch: WG1122629-2 WG1122629-3								
Cyanide, Total	103		100		85-115	3		20
General Chemistry - Westborough Lab Associated sample(s): 03-12 Batch: WG1122634-2 WG1122634-3								
Cyanide, Total	77	Q	69	Q	80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 03-12 Batch: WG1122884-2								
Chromium, Hexavalent	80		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1123747-2								
Chromium, Hexavalent	77	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1123793-2 WG1123793-3								
Cyanide, Total	32	Q	32	Q	80-120	1		35

Matrix Spike Analysis Batch Quality Control

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-15 QC Batch ID: WG1121763-4 QC Sample: L1820339-15 Client ID: TWDUP01_060118												
Chromium, Hexavalent	ND	0.1	0.095	95	-	-	-	-	85-115	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 13-15 QC Batch ID: WG1122629-4 WG1122629-5 QC Sample: L1820074-01 Client ID: MS Sample												
Cyanide, Total	ND	0.2	0.193	96	-	0.189	94	-	80-120	2	-	20
General Chemistry - Westborough Lab Associated sample(s): 03-12 QC Batch ID: WG1122634-4 WG1122634-5 QC Sample: L1820339-03 Client ID: SB04_1-3												
Cyanide, Total	ND	11	10	91	-	10	92	-	75-125	0	-	35
General Chemistry - Westborough Lab Associated sample(s): 03-12 QC Batch ID: WG1122884-4 QC Sample: L1820339-11 Client ID: SB06_12-14												
Chromium, Hexavalent	ND	850	730	86	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1123747-4 QC Sample: L1820339-02 Client ID: SB06_14-16												
Chromium, Hexavalent	ND	1310	1260	96	-	-	-	-	75-125	-	-	20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1123793-4 WG1123793-5 QC Sample: L1820339-02 Client ID: SB06_14-16												
Cyanide, Total	ND	11	9.2	86	-	9.6	92	-	75-125	4	-	35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W 29TH ST.

Project Number: 170515401

Lab Number: L1820339

Report Date: 06/11/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 13-15 QC Batch ID: WG1121763-3 QC Sample: L1820339-14 Client ID: TW05_060118						
Chromium, Hexavalent	ND	ND	mg/l	NC		20
General Chemistry - Westborough Lab Associated sample(s): 03-12 QC Batch ID: WG1122700-1 QC Sample: L1820524-02 Client ID: DUP Sample						
Solids, Total	96.2	95.9	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03-12 QC Batch ID: WG1122884-6 QC Sample: L1820339-11 Client ID: SB06_12-14						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1123747-6 QC Sample: L1820339-02 Client ID: SB06_14-16						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1123790-1 QC Sample: L1821308-01 Client ID: DUP Sample						
Solids, Total	91.3	91.0	%	0		20

Project Name: 538-540 W 29TH ST.**Lab Number:** L1820339**Project Number:** 170515401**Report Date:** 06/11/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent
E	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-01A	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1820339-01B	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1820339-01C	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1820339-01D	Vial HCl preserved	A	NA		2.6	Y	Absent		NYTCL-8260(14)
L1820339-02A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-02B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-02C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-02D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-02E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-02F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-02G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-03A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L1820339-03B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1820339-03C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260H(14),NYTCL-8260HLW(14)
L1820339-03D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-03E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-03F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-03G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-04A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-04B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-04C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-04D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-04E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-04F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-04G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-05A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-05B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-05C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-05D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-05E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-05F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-05G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-06A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-06B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-06C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-06D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-06E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-06F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-06G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-07A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-07B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-07C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-07D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-07E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-07F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-07G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-08A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-08B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-08C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-08D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-08E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-08F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-08G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-09A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-09B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-09C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-09D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-09E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-09F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-09G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-10A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-10B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-10C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-10D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-10E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-10F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-10G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-11A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)
L1820339-11B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-11C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-11D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-11E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-11F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-11G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-12A	Vial MeOH preserved	B	NA		3.9	Y	Absent		NYTCL-8260HLW(14)

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Serial_No:06111819:53
Lab Number: L1820339
Report Date: 06/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-12B	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-12C	Vial water preserved	B	NA		3.9	Y	Absent	02-JUN-18 03:25	NYTCL-8260HLW(14)
L1820339-12D	Plastic 2oz unpreserved for TS	B	NA		3.9	Y	Absent		TS(7)
L1820339-12E	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.9	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1820339-12F	Glass 120ml/4oz unpreserved	B	NA		3.9	Y	Absent		TCN-9010(14),HEXCR-7196(30)
L1820339-12G	Glass 500ml/16oz unpreserved	B	NA		3.9	Y	Absent		NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(14)
L1820339-13A	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L1820339-13B	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L1820339-13C	Vial HCl preserved	C	NA		4.4	Y	Absent		NYTCL-8260(14)
L1820339-13D	Plastic 250ml HNO3 preserved	C	<2	<2	4.4	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1820339-13E	Plastic 250ml HNO3 preserved	C	<2	<2	4.4	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1820339-13F	Plastic 250ml NaOH preserved	C	>12	>12	4.4	Y	Absent		TCN-9010(14)
L1820339-13G	Plastic 500ml unpreserved	C	7	7	4.4	Y	Absent		HEXCR-7196(1)
L1820339-13H	Amber 120ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8081(7)
L1820339-13I	Amber 120ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8081(7)
L1820339-13J	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1820339-13K	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1820339-13L	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		HERB-APA(7)

Project Name: 538-540 W 29TH ST.
Project Number: 170515401

Serial_No:06111819:53
Lab Number: L1820339
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Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-13M	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		HERB-APA(7)
L1820339-13N	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)
L1820339-13O	Amber 1000ml unpreserved	C	7	7	4.4	Y	Absent		NYTCL-8082-1200ML(7)
L1820339-14A	Vial HCl preserved	D	NA		3.1	Y	Absent		NYTCL-8260(14)
L1820339-14B	Vial HCl preserved	D	NA		3.1	Y	Absent		NYTCL-8260(14)
L1820339-14C	Vial HCl preserved	D	NA		3.1	Y	Absent		NYTCL-8260(14)
L1820339-14D	Plastic 250ml HNO3 preserved	D	<2	<2	3.1	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1820339-14E	Plastic 250ml HNO3 preserved	D	<2	<2	3.1	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1820339-14F	Plastic 250ml NaOH preserved	D	>12	>12	3.1	Y	Absent		TCN-9010(14)
L1820339-14G	Plastic 500ml unpreserved	D	7	7	3.1	Y	Absent		HEXCR-7196(1)
L1820339-14H	Amber 120ml unpreserved	D	7	7	3.1	Y	Absent		NYTCL-8081(7)
L1820339-14I	Amber 120ml unpreserved	D	7	7	3.1	Y	Absent		NYTCL-8081(7)
L1820339-14J	Amber 1000ml unpreserved	D	7	7	3.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1820339-14K	Amber 1000ml unpreserved	D	7	7	3.1	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1820339-14L	Amber 1000ml unpreserved	D	7	7	3.1	Y	Absent		HERB-APA(7)
L1820339-14M	Amber 1000ml unpreserved	D	7	7	3.1	Y	Absent		HERB-APA(7)
L1820339-14N	Amber 1000ml unpreserved	D	7	7	3.1	Y	Absent		NYTCL-8082-1200ML(7)
L1820339-14O	Amber 1000ml unpreserved	D	7	7	3.1	Y	Absent		NYTCL-8082-1200ML(7)
L1820339-15A	Vial HCl preserved	E	NA		2.2	Y	Absent		NYTCL-8260(14)
L1820339-15B	Vial HCl preserved	E	NA		2.2	Y	Absent		NYTCL-8260(14)

Project Name: 538-540 W 29TH ST.

Lab Number: L1820339

Project Number: 170515401

Report Date: 06/11/18

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820339-15C	Vial HCl preserved	E	NA		2.2	Y	Absent		NYTCL-8260(14)
L1820339-15D	Plastic 250ml HNO3 preserved	E	<2	<2	2.2	Y	Absent		CU-6020S(180),K-6020S(180),SE-6020S(180),V-6020S(180),MN-6020S(180),BE-6020S(180),CO-6020S(180),MG-6020S(180),ZN-6020S(180),CA-6020S(180),CR-6020S(180),FE-6020S(180),BA-6020S(180),NA-6020S(180),NI-6020S(180),PB-6020S(180),TL-6020S(180),AG-6020S(180),AS-6020S(180),SB-6020S(180),AL-6020S(180),CD-6020S(180),HG-S(28)
L1820339-15E	Plastic 250ml HNO3 preserved	E	<2	<2	2.2	Y	Absent		BA-6020T(180),FE-6020T(180),SE-6020T(180),TL-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),CU-6020T(180),NA-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),SB-6020T(180),V-6020T(180),AG-6020T(180),AL-6020T(180),CD-6020T(180),HG-T(28),MG-6020T(180),CO-6020T(180)
L1820339-15F	Plastic 250ml NaOH preserved	E	>12	>12	2.2	Y	Absent		TCN-9010(14)
L1820339-15G	Plastic 500ml unpreserved	E	7	7	2.2	Y	Absent		HEXCR-7196(1)
L1820339-15H	Amber 120ml unpreserved	E	7	7	2.2	Y	Absent		NYTCL-8081(7)
L1820339-15I	Amber 120ml unpreserved	E	7	7	2.2	Y	Absent		NYTCL-8081(7)
L1820339-15J	Amber 1000ml unpreserved	E	7	7	2.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1820339-15K	Amber 1000ml unpreserved	E	7	7	2.2	Y	Absent		NYTCL-8270(7),NYTCL-8270-SIM(7)
L1820339-15L	Amber 1000ml unpreserved	E	7	7	2.2	Y	Absent		HERB-APA(7)
L1820339-15M	Amber 1000ml unpreserved	E	7	7	2.2	Y	Absent		HERB-APA(7)
L1820339-15N	Amber 1000ml unpreserved	E	7	7	2.2	Y	Absent		NYTCL-8082-1200ML(7)
L1820339-15O	Amber 1000ml unpreserved	E	7	7	2.2	Y	Absent		NYTCL-8082-1200ML(7)
L1820339-16A	Vial HCl preserved	E	NA		2.2	Y	Absent		NYTCL-8260(14)
L1820339-16B	Vial HCl preserved	E	NA		2.2	Y	Absent		NYTCL-8260(14)

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GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

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Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

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REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water


EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.



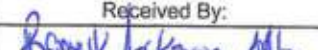


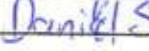
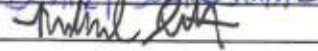
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.


EPA 245.1 Hg.


SM2340B

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

 NEW YORK CHAIN OF CUSTODY	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #		
		1 of 4	6/1/18	L1830339		
Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Project Information		Deliverables	Billing Information	
Project Name: <u>S38-540 U25th St</u> Project Location: <u>Mahwah</u> Project # <u>170515401</u> (Use Project name as Project #) <input type="checkbox"/>		<input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> Same as Client Info PO #		
Client Information		Regulatory Requirement		Disposal Site Information		
Client: <u>Lagen</u> Address: <u>360 W 31st St 8th Fl</u> <u>NY NY 10001</u> Phone: <u>212 439-5400</u> Fax: Email: <u>esnead@lagen.com</u>		<input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		These samples have been previously analyzed by Alpha <input type="checkbox"/>				
Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS		Sample Filtration		
		Total Bottles		<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Sample Specific Comments
20339-01	SBTB02-060118	6/1/18			KG	Trip Blank
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)
				Container Type Preservative		
		Relinquished By: <u>[Signature]</u> Date/Time: <u>6/1/18 15:53</u>		Received By: <u>[Signature]</u> Date/Time: <u>6/1/18 15:53</u>		
		Relinquished By: <u>[Signature]</u> Date/Time: <u>6/1/18 18:00</u>		Received By: <u>[Signature]</u> Date/Time: <u>6/1/18 18:30</u>		
		Relinquished By: <u>[Signature]</u> Date/Time: <u>6/1/18 23:15</u>		Received By: <u>[Signature]</u> Date/Time: <u>6/1/18 23:15</u>		

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 2 of 4	Date Rec'd in Lab 6/1/18	ALPHA Job # 0620339		
		Project Information Project Name: <u>S38-540 w 29th st</u> Project Location: <u>Methuen</u> Project # <u>170515401</u> (Use Project name as Project #) <input type="checkbox"/>		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #	
Client Information Client: <u>Lanex</u> Address: <u>360 W 31st St 8th Fl</u> <u>NY, NY 10001</u> Phone: <u>212 479-5400</u> Fax: Email: <u>esnead@lanex.com</u>		Project Manager: <u>Emily Sneed</u> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge			
Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		ANALYSIS Part 375 VOCs, SVOCs PCBs, Pesticides/Herb Total Metals (Cd, Cr, Ni, Pb, Se, Zn)		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		Sample Specific Comments <u>HOLD</u>		T o t a l B o t t l e			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Matrix			Sampler's Initials	
		Date Time					
<u>20339-02</u>	<u>SBOG-14-16</u>	<u>6/1/18</u> <u>12:20</u>	<u>S</u>			<u>KG</u>	<u>✓</u> <u>✓</u> <u>✓</u>
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type Preservative	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)			
Relinquished By:		Date/Time	Received By:		Date/Time		
		<u>6/1/18 15:53</u>			<u>6/1 15:53</u>		
		<u>6/1 14:09</u>			<u>6/1/18 18:30</u>		
		<u>6/1/18 23:15</u>			<u>6/1/18 23:15</u>		

 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 3 of 4	Date Rec'd in Lab 6/1/18	ALPHA Job # L1920339			
		Project Information Project Name: 538-540 W 29th St Project Location: Manhattan Project # 170515401		Deliverables <input type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other		Billing Information <input checked="" type="checkbox"/> Same as Client Info PO #			
Client Information Client: Langan Address: 360 W 31st St B¹¹ Fl Phone: 212 479-5400 Fax: Email: esneade@langan.com		Project Manager: Emily Sneed ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		Regulatory Requirement <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments:				ANALYSIS		Sample Filtration <input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)			
Please specify Metals or TAL.				Total Bottles		Sample Specific Comments			
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				
		Date	Time						
2039-03	5804-1-3	6/8/18	09:34	S	KG			✓	✓
-04	5804-6-8	6/1/18	09:42	S	KG			✓	✓
-05	5804-10-12	6/1/18	09:55	S	KG			✓	✓
-06	5805-0-2	6/1/18	10:30	S	KG			✓	✓
-07	5805-7-8	6/1/18	10:40	S	KG			✓	✓
-08	5805-11-12	6/1/18	10:56	S	KG			✓	✓
-09	5806-0-2	6/1/18	12:02	S	KG			✓	✓
-10	5806-6-8	6/1/18	12:08	S	KG			✓	✓
-11	5806-12-14	6/1/18	12:15	S	KG			✓	✓
-12	5806-12-14	6/1/18	00:00	S	KG			✓	✓
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative			
Relinquished By:		Date/Time		Received By:		Date/Time			
[Signature]		6/1/18 15:53		[Signature]		6/1 1553			
[Signature]		6/1 1409		[Signature]		6/1/18 1830			
[Signature]		6/1/18 2315		[Signature]		6/1/18 2315			

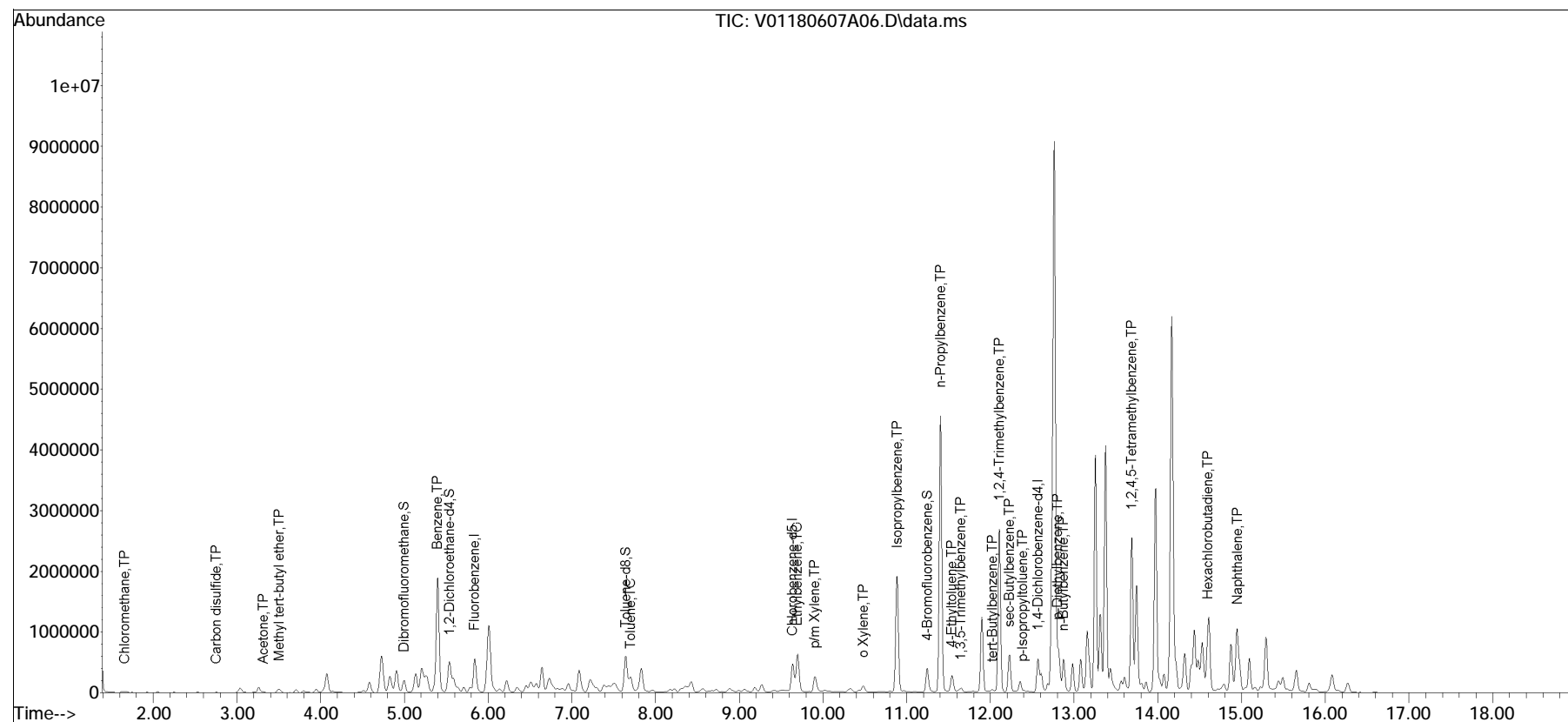
 NEW YORK CHAIN OF CUSTODY Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	NEW YORK CHAIN OF CUSTODY Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	Service Centers Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 4 of 4	Date Rec'd in Lab 6/1/18	ALPHA Job # 218 00339				
		Project Information	Deliverables	Billing Information					
Client Information	Regulatory Requirement	Disposal Site Information							
Client: <u>Layan</u> Address: <u>360 W 21st St 9th Fl NY NY 10001</u> Phone: <u>212 474-5400</u> Fax: Email: <u>esnead@layan.com</u>	Project Name: <u>538-540 W 21st St</u> Project Location: <u>170515401</u> Project # <u>Manhattan</u> (Use Project name as Project #) <input type="checkbox"/> Project Manager: <u>Emily Sneed</u> ALPHAQuote #: Turn-Around Time Standard <input type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	Same as Client Info <input checked="" type="checkbox"/> PO # NY TOGS <input checked="" type="checkbox"/> NY Part 375 AWQ Standards <input type="checkbox"/> NY CP-51 NY Restricted Use <input type="checkbox"/> Other NY Unrestricted Use NYC Sewer Discharge Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Please specify Metals or TAL.		ANALYSIS	Sample Filtration						
		VOCs SVOCs, PCBs, Pesticides TAL Metals (EPA 10, 15, 16) Tri-Arachnid CN	<input type="checkbox"/> Done <input type="checkbox"/> Lab to do Preservation <input type="checkbox"/> Lab to do (Please Specify below)						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date Time	Sample Matrix Sampler's Initials	Sample Specific Comments	Total Bottles				
20339-13	TW03_060118	6/1/18 11:30	GW KG	✓ ✓ ✓ ✓					
-14	TW05_060118	6/1/18 12:30	GW KG	✓ ✓ ✓ ✓					
-15	TW09POL_060118	6/1/18 00:00	GW KG	✓ ✓ ✓ ✓					
-16	GWTB01_060118	6/1/18	KG	✓					
-17									
-18									
-19									
-20									
-21				Trip Blank					
Preservative Code: A = None B = HCl C = HNO ₃ D = H ₂ SO ₄ E = NaOH F = MeOH G = NaHSO ₄ H = Na ₂ S ₂ O ₃ K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)	
Relinquished By:		Date/Time		Received By:		Date/Time			
[Signature]		6/1/18 15:53		Kenneth Johnson		6/1 1553			
[Signature]		6/1 1809		Daniel Santos		6/1/18 1830			
[Signature]		6/1/18 2315		[Signature]		6/1/18 2315			

Quantitation Report (QT Reviewed)

Data Path : I:\VOLATILES\VOA101\2018\180607A\
 Data File : V01180607A06.D
 Acq On : 7 Jun 2018 11:57 am
 Operator : VOA101:PD
 Sample : 11820339-13,31,10,10,,c
 Misc : WG1123557,ICAL14549
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 07 13:05:09 2018
 Quant Method : I:\VOLATILES\VOA101\2018\180607A\V101_180315A_8260.m
 Quant Title : VOLATILES BY GC/MS
 QLast Update : Tue Mar 20 11:27:54 2018
 Response via : Initial Calibration

Sub List : 8260-NYTCL - Megamix plus Diox80607A\V01180607A02.D•





ANALYTICAL REPORT

Lab Number:	L1820382
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Emily Snead
Phone:	(212) 479-5432
Project Name:	538-540 W29TH STREET
Project Number:	170515401
Report Date:	06/14/18

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

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

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



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1820382-01	SV01_060118	SOIL_VAPOR	MANHATTAN	06/01/18 14:02	06/01/18
L1820382-02	SV02_060118	SOIL_VAPOR	MANHATTAN	06/01/18 10:48	06/01/18
L1820382-03	SV03_060118	SOIL_VAPOR	MANHATTAN	06/01/18 14:00	06/01/18
L1820382-04	SV04_060118	SOIL_VAPOR	MANHATTAN	06/01/18 10:44	06/01/18
L1820382-05	SVAA_060118	AIR	MANHATTAN	06/01/18 14:49	06/01/18
L1820382-06	UNUSED CAN #2480	AIR	MANHATTAN		06/01/18

Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

Case Narrative

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

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

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

HOLD POLICY

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

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

Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

Case Narrative (continued)

Report Submission

This report replaces the one previously issued on June 8, 2018. The report has been revised to report the 7 NYS Decision Matrix Compounds by TO15 SIM at the request of the client.

Volatile Organics in Air

Canisters were released from the laboratory on May 31, 2018. The canister certification results are provided as an addendum.

L1820382-01, -02, -03 and -05 results for Acetone should be considered estimated due to co-elution with a non-target peak.

L1820382-01 results for 2-Hexanone should be considered estimated due to co-elution with a non-target peak.

L1820382-01, -02, -03 and -05 The presence of 2,2,4-Trimethylbenzene could not be determined in these samples due to a non-target compound interfering with the identification and quantification of this compound.

L1820382-03 and -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L1820382-03 and -04: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 06/14/18

AIR

Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-01
 Client ID: SV01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 06/08/18 04:17
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.697	0.200	--	3.45	0.989	--		1
Chloromethane	0.653	0.200	--	1.35	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	0.544	0.200	--	1.39	0.511	--		1
1,3-Butadiene	1.26	0.200	--	2.79	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	1.15	0.200	--	3.03	0.528	--		1
Ethyl Alcohol	5.02	5.00	--	9.46	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	107	1.00	--	254	2.38	--		1
Trichlorofluoromethane	0.357	0.200	--	2.01	1.12	--		1
iso-Propyl Alcohol	2.21	0.500	--	5.43	1.23	--		1
1,1-Dichloroethene	0.237	0.200	--	0.940	0.793	--		1
tert-Butyl Alcohol	5.10	0.500	--	15.5	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.01	0.200	--	3.15	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	0.237	0.200	--	0.959	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	12.2	0.500	--	36.0	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-01
 Client ID: SV01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	1.05	0.200	--	5.13	0.977	--		1
Tetrahydrofuran	2.62	0.500	--	7.73	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	5.42	0.200	--	19.1	0.705	--		1
1,1,1-Trichloroethane	0.337	0.200	--	1.84	1.09	--		1
Benzene	1.34	0.200	--	4.28	0.639	--		1
Carbon tetrachloride	0.297	0.200	--	1.87	1.26	--		1
Cyclohexane	6.64	0.200	--	22.9	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	4.68	0.200	--	19.2	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	1.37	0.500	--	5.61	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	29.8	0.200	--	112	0.754	--		1
2-Hexanone	1.13	0.200	--	4.63	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	2.30	0.200	--	15.6	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.98	0.200	--	8.60	0.869	--		1



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-01
 Client ID: SV01_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:02
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	7.29	0.400	--	31.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	0.725	0.200	--	3.09	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	2.74	0.200	--	11.9	0.869	--		1
4-Ethyltoluene	0.712	0.200	--	3.50	0.983	--		1
1,3,5-Trimethylbenzene	0.899	0.200	--	4.42	0.983	--		1
1,2,4-Trimethylbenzene	2.64	0.200	--	13.0	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	62		60-140
chlorobenzene-d5	89		60-140



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-02
 Client ID: SV02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:48
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 06/08/18 04:56
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.448	0.200	--	2.22	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.9	1.00	--	40.1	2.38	--		1
Trichlorofluoromethane	0.206	0.200	--	1.16	1.12	--		1
iso-Propyl Alcohol	0.795	0.500	--	1.95	1.23	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	0.533	0.500	--	1.62	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	1.76	0.200	--	5.48	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.87	0.500	--	8.46	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-02
 Client ID: SV02_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:48
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.613	0.200	--	2.99	0.977	--		1
Tetrahydrofuran	5.11	0.500	--	15.1	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	26.4	0.200	--	93.0	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	3.17	0.200	--	10.1	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	16.5	0.200	--	56.8	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	10.8	0.200	--	44.3	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	17.3	0.200	--	65.2	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	5.62	0.200	--	38.1	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	3.76	0.200	--	16.3	0.869	--		1



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-02

Date Collected: 06/01/18 10:48

Client ID: SV02_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	8.24	0.400	--	35.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	1.95	0.200	--	8.30	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	3.64	0.200	--	15.8	0.869	--		1
4-Ethyltoluene	0.941	0.200	--	4.63	0.983	--		1
1,3,5-Trimethylbenzene	1.06	0.200	--	5.21	0.983	--		1
1,2,4-Trimethylbenzene	3.15	0.200	--	15.5	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	92		60-140



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-03 D
 Client ID: SV03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 06/08/18 05:33
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	1.00	--	ND	4.94	--		5
Chloromethane	ND	1.00	--	ND	2.07	--		5
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	1.00	--	ND	6.99	--		5
Vinyl chloride	ND	1.00	--	ND	2.56	--		5
1,3-Butadiene	2.17	1.00	--	4.80	2.21	--		5
Bromomethane	ND	1.00	--	ND	3.88	--		5
Chloroethane	ND	1.00	--	ND	2.64	--		5
Ethyl Alcohol	ND	25.0	--	ND	47.1	--		5
Vinyl bromide	ND	1.00	--	ND	4.37	--		5
Acetone	44.2	5.00	--	105	11.9	--		5
Trichlorofluoromethane	2.70	1.00	--	15.2	5.62	--		5
iso-Propyl Alcohol	2.58	2.50	--	6.34	6.15	--		5
1,1-Dichloroethene	ND	1.00	--	ND	3.96	--		5
tert-Butyl Alcohol	4.32	2.50	--	13.1	7.58	--		5
Methylene chloride	ND	2.50	--	ND	8.69	--		5
3-Chloropropene	ND	1.00	--	ND	3.13	--		5
Carbon disulfide	4.05	1.00	--	12.6	3.11	--		5
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	1.00	--	ND	7.66	--		5
trans-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5
1,1-Dichloroethane	ND	1.00	--	ND	4.05	--		5
Methyl tert butyl ether	ND	1.00	--	ND	3.61	--		5
2-Butanone	8.25	2.50	--	24.3	7.37	--		5
cis-1,2-Dichloroethene	ND	1.00	--	ND	3.96	--		5



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-03 D

Date Collected: 06/01/18 14:00

Client ID: SV03_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	2.50	--	ND	9.01	--		5
Chloroform	ND	1.00	--	ND	4.88	--		5
Tetrahydrofuran	ND	2.50	--	ND	7.37	--		5
1,2-Dichloroethane	ND	1.00	--	ND	4.05	--		5
n-Hexane	194	1.00	--	684	3.52	--		5
1,1,1-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Benzene	2.73	1.00	--	8.72	3.19	--		5
Carbon tetrachloride	ND	1.00	--	ND	6.29	--		5
Cyclohexane	419	1.00	--	1440	3.44	--		5
1,2-Dichloropropane	ND	1.00	--	ND	4.62	--		5
Bromodichloromethane	ND	1.00	--	ND	6.70	--		5
1,4-Dioxane	ND	1.00	--	ND	3.60	--		5
Trichloroethene	ND	1.00	--	ND	5.37	--		5
2,2,4-Trimethylpentane	ND	1.00	--	ND	4.67	--		5
Heptane	11.6	1.00	--	47.5	4.10	--		5
cis-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
4-Methyl-2-pentanone	ND	2.50	--	ND	10.2	--		5
trans-1,3-Dichloropropene	ND	1.00	--	ND	4.54	--		5
1,1,2-Trichloroethane	ND	1.00	--	ND	5.46	--		5
Toluene	26.8	1.00	--	101	3.77	--		5
2-Hexanone	ND	1.00	--	ND	4.10	--		5
Dibromochloromethane	ND	1.00	--	ND	8.52	--		5
1,2-Dibromoethane	ND	1.00	--	ND	7.69	--		5
Tetrachloroethene	1.92	1.00	--	13.0	6.78	--		5
Chlorobenzene	ND	1.00	--	ND	4.61	--		5
Ethylbenzene	2.02	1.00	--	8.77	4.34	--		5



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-03 D
 Client ID: SV03_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:00
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	6.60	2.00	--	28.7	8.69	--		5
Bromoform	ND	1.00	--	ND	10.3	--		5
Styrene	ND	1.00	--	ND	4.26	--		5
1,1,2,2-Tetrachloroethane	ND	1.00	--	ND	6.87	--		5
o-Xylene	2.60	1.00	--	11.3	4.34	--		5
4-Ethyltoluene	ND	1.00	--	ND	4.92	--		5
1,3,5-Trimethylbenzene	ND	1.00	--	ND	4.92	--		5
1,2,4-Trimethylbenzene	2.23	1.00	--	11.0	4.92	--		5
Benzyl chloride	ND	1.00	--	ND	5.18	--		5
1,3-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,4-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2-Dichlorobenzene	ND	1.00	--	ND	6.01	--		5
1,2,4-Trichlorobenzene	ND	1.00	--	ND	7.42	--		5
Hexachlorobutadiene	ND	1.00	--	ND	10.7	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	81		60-140
chlorobenzene-d5	90		60-140



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-04 D
 Client ID: SV04_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 10:44
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 06/08/18 07:30
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	ND	217.	--	ND	1070	--		1087
Chloromethane	ND	217.	--	ND	448	--		1087
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	217.	--	ND	1520	--		1087
Vinyl chloride	ND	217.	--	ND	555	--		1087
1,3-Butadiene	ND	217.	--	ND	480	--		1087
Bromomethane	ND	217.	--	ND	843	--		1087
Chloroethane	ND	217.	--	ND	573	--		1087
Ethyl Alcohol	ND	5440	--	ND	10300	--		1087
Vinyl bromide	ND	217.	--	ND	949	--		1087
Acetone	ND	1090	--	ND	2590	--		1087
Trichlorofluoromethane	ND	217.	--	ND	1220	--		1087
iso-Propyl Alcohol	ND	544.	--	ND	1340	--		1087
1,1-Dichloroethene	ND	217.	--	ND	860	--		1087
tert-Butyl Alcohol	ND	544	--	ND	1650	--		1087
Methylene chloride	ND	544.	--	ND	1890	--		1087
3-Chloropropene	ND	217.	--	ND	679	--		1087
Carbon disulfide	ND	217.	--	ND	676	--		1087
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	217.	--	ND	1660	--		1087
trans-1,2-Dichloroethene	ND	217.	--	ND	860	--		1087
1,1-Dichloroethane	ND	217.	--	ND	878	--		1087
Methyl tert butyl ether	2520	217	--	9090	782	--		1087
2-Butanone	ND	544	--	ND	1600	--		1087
cis-1,2-Dichloroethene	ND	217.	--	ND	860	--		1087



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-04 D

Date Collected: 06/01/18 10:44

Client ID: SV04_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Ethyl Acetate	ND	544.	--	ND	1960	--		1087
Chloroform	ND	217.	--	ND	1060	--		1087
Tetrahydrofuran	ND	544.	--	ND	1600	--		1087
1,2-Dichloroethane	ND	217.	--	ND	878	--		1087
n-Hexane	9650	217	--	34000	765	--		1087
1,1,1-Trichloroethane	ND	217.	--	ND	1180	--		1087
Benzene	6300	217	--	20100	693	--		1087
Carbon tetrachloride	ND	217.	--	ND	1370	--		1087
Cyclohexane	18200	217	--	62600	747	--		1087
1,2-Dichloropropane	ND	217.	--	ND	1000	--		1087
Bromodichloromethane	ND	217.	--	ND	1450	--		1087
1,4-Dioxane	ND	217.	--	ND	782	--		1087
Trichloroethene	ND	217.	--	ND	1170	--		1087
2,2,4-Trimethylpentane	54700	217	--	255000	1010	--		1087
Heptane	30300	217	--	124000	889	--		1087
cis-1,3-Dichloropropene	ND	217.	--	ND	985	--		1087
4-Methyl-2-pentanone	ND	544.	--	ND	2230	--		1087
trans-1,3-Dichloropropene	ND	217.	--	ND	985	--		1087
1,1,2-Trichloroethane	ND	217.	--	ND	1180	--		1087
Toluene	2320	217	--	8740	818	--		1087
2-Hexanone	ND	217.	--	ND	889	--		1087
Dibromochloromethane	ND	217.	--	ND	1850	--		1087
1,2-Dibromoethane	ND	217.	--	ND	1670	--		1087
Tetrachloroethene	ND	217.	--	ND	1470	--		1087
Chlorobenzene	ND	217.	--	ND	999	--		1087
Ethylbenzene	582	217	--	2530	943	--		1087



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-04 D

Date Collected: 06/01/18 10:44

Client ID: SV04_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
p/m-Xylene	660	435	--	2870	1890	--		1087
Bromoform	ND	217.	--	ND	2240	--		1087
Styrene	ND	217.	--	ND	924	--		1087
1,1,2,2-Tetrachloroethane	ND	217.	--	ND	1490	--		1087
o-Xylene	ND	217.	--	ND	943	--		1087
4-Ethyltoluene	ND	217.	--	ND	1070	--		1087
1,3,5-Trimethylbenzene	ND	217.	--	ND	1070	--		1087
1,2,4-Trimethylbenzene	ND	217.	--	ND	1070	--		1087
Benzyl chloride	ND	217.	--	ND	1120	--		1087
1,3-Dichlorobenzene	ND	217.	--	ND	1300	--		1087
1,4-Dichlorobenzene	ND	217.	--	ND	1300	--		1087
1,2-Dichlorobenzene	ND	217.	--	ND	1300	--		1087
1,2,4-Trichlorobenzene	ND	217.	--	ND	1610	--		1087
Hexachlorobutadiene	ND	217.	--	ND	2310	--		1087

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	84		60-140
chlorobenzene-d5	94		60-140



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-04 D

Date Collected: 06/01/18 10:44

Client ID: SV04_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/08/18 07:30

Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	21.7	--	ND	55.5	--		1087
1,1-Dichloroethene	ND	21.7	--	ND	86.0	--		1087
cis-1,2-Dichloroethene	ND	21.7	--	ND	86.0	--		1087
1,1,1-Trichloroethane	ND	21.7	--	ND	118	--		1087
Carbon tetrachloride	ND	21.7	--	ND	137	--		1087
Trichloroethene	ND	21.7	--	ND	117	--		1087
Tetrachloroethene	46.7	21.7	--	317	147	--		1087

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	85		60-140
chlorobenzene-d5	98		60-140



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-05
 Client ID: SVAA_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:49
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 06/07/18 18:10
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dichlorodifluoromethane	0.440	0.200	--	2.18	0.989	--		1
Chloromethane	0.547	0.200	--	1.13	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	12.7	5.00	--	23.9	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.68	1.00	--	20.6	2.38	--		1
Trichlorofluoromethane	0.217	0.200	--	1.22	1.12	--		1
iso-Propyl Alcohol	1.93	0.500	--	4.74	1.23	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	0.500	0.500	--	1.47	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

SAMPLE RESULTS

Lab ID: L1820382-05
 Client ID: SVAA_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:49
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.330	0.200	--	1.16	0.705	--		1
Benzene	0.384	0.200	--	1.23	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	0.336	0.200	--	1.57	0.934	--		1
Heptane	0.226	0.200	--	0.926	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	1.03	0.200	--	3.88	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	0.599	0.400	--	2.60	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.228	0.200	--	0.990	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-05

Date Collected: 06/01/18 14:49

Client ID: SVAA_060118

Date Received: 06/01/18

Sample Location: MANHATTAN

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	91		60-140



Project Name: 538-540 W29TH STREET**Lab Number:** L1820382**Project Number:** 170515401**Report Date:** 06/14/18**SAMPLE RESULTS**

Lab ID: L1820382-05
 Client ID: SVAA_060118
 Sample Location: MANHATTAN

Date Collected: 06/01/18 14:49
 Date Received: 06/01/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 06/07/18 18:10
 Analyst: MB

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.100	0.020	--	0.678	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	98		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	94		60-140



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/07/18 15:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1123624-4								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/07/18 15:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1123624-4								
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Isopropyl Ether	ND	0.200	--	ND	0.836	--		1
Ethyl-Tert-Butyl-Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Tertiary-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/07/18 15:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1123624-4								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl Acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1

Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/07/18 15:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1123624-4								
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane (C9)	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
o-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
p-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane (C10)	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane (C12)	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 06/07/18 15:13

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab for sample(s): 01-05 Batch: WG1123624-4								
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/07/18 15:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 04-05 Batch: WG1123625-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/07/18 15:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 04-05 Batch: WG1123625-4								
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/07/18 15:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 04-05 Batch: WG1123625-4								
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1



Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 06/07/18 15:51

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 04-05 Batch: WG1123625-4								
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1123624-3								
Chlorodifluoromethane	77		-		70-130	-		
Propylene	91		-		70-130	-		
Dichlorodifluoromethane	94		-		70-130	-		
Chloromethane	82		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	93		-		70-130	-		
Methanol	73		-		70-130	-		
Vinyl chloride	89		-		70-130	-		
1,3-Butadiene	92		-		70-130	-		
Butane	80		-		70-130	-		
Bromomethane	93		-		70-130	-		
Chloroethane	84		-		70-130	-		
Ethyl Alcohol	78		-		70-130	-		
Dichlorofluoromethane	85		-		70-130	-		
Vinyl bromide	97		-		70-130	-		
Acrolein	78		-		70-130	-		
Acetone	75		-		70-130	-		
Acetonitrile	78		-		70-130	-		
Trichlorofluoromethane	98		-		70-130	-		
iso-Propyl Alcohol	74		-		70-130	-		
Acrylonitrile	84		-		70-130	-		
Pentane	82		-		70-130	-		
Ethyl ether	71		-		70-130	-		
1,1-Dichloroethene	90		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1123624-3								
tert-Butyl Alcohol	85		-		70-130	-		
Methylene chloride	90		-		70-130	-		
3-Chloropropene	93		-		70-130	-		
Carbon disulfide	90		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	101		-		70-130	-		
trans-1,2-Dichloroethene	103		-		70-130	-		
1,1-Dichloroethane	103		-		70-130	-		
Methyl tert butyl ether	103		-		70-130	-		
Vinyl acetate	107		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	99		-		70-130	-		
Ethyl Acetate	100		-		70-130	-		
Chloroform	104		-		70-130	-		
Tetrahydrofuran	95		-		70-130	-		
2,2-Dichloropropane	94		-		70-130	-		
1,2-Dichloroethane	102		-		70-130	-		
n-Hexane	91		-		70-130	-		
Isopropyl Ether	82		-		70-130	-		
Ethyl-Tert-Butyl-Ether	76		-		70-130	-		
1,1,1-Trichloroethane	97		-		70-130	-		
1,1-Dichloropropene	91		-		70-130	-		
Benzene	88		-		70-130	-		
Carbon tetrachloride	106		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1123624-3								
Cyclohexane	90		-		70-130	-		
Tertiary-Amyl Methyl Ether	80		-		70-130	-		
Dibromomethane	88		-		70-130	-		
1,2-Dichloropropane	88		-		70-130	-		
Bromodichloromethane	101		-		70-130	-		
1,4-Dioxane	99		-		70-130	-		
Trichloroethene	95		-		70-130	-		
2,2,4-Trimethylpentane	91		-		70-130	-		
Heptane	92		-		70-130	-		
cis-1,3-Dichloropropene	95		-		70-130	-		
4-Methyl-2-pentanone	98		-		70-130	-		
trans-1,3-Dichloropropene	83		-		70-130	-		
1,1,2-Trichloroethane	96		-		70-130	-		
Toluene	94		-		70-130	-		
1,3-Dichloropropane	89		-		70-130	-		
2-Hexanone	100		-		70-130	-		
Dibromochloromethane	115		-		70-130	-		
1,2-Dibromoethane	99		-		70-130	-		
Butyl Acetate	93		-		70-130	-		
Octane	86		-		70-130	-		
Tetrachloroethene	95		-		70-130	-		
1,1,1,2-Tetrachloroethane	97		-		70-130	-		
Chlorobenzene	96		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1123624-3								
Ethylbenzene	97		-		70-130	-		
p/m-Xylene	98		-		70-130	-		
Bromoform	112		-		70-130	-		
Styrene	94		-		70-130	-		
1,1,1,2-Tetrachloroethane	95		-		70-130	-		
o-Xylene	99		-		70-130	-		
1,2,3-Trichloropropane	88		-		70-130	-		
Nonane (C9)	84		-		70-130	-		
Isopropylbenzene	95		-		70-130	-		
Bromobenzene	88		-		70-130	-		
o-Chlorotoluene	92		-		70-130	-		
n-Propylbenzene	91		-		70-130	-		
p-Chlorotoluene	89		-		70-130	-		
4-Ethyltoluene	97		-		70-130	-		
1,3,5-Trimethylbenzene	108		-		70-130	-		
tert-Butylbenzene	93		-		70-130	-		
1,2,4-Trimethylbenzene	100		-		70-130	-		
Decane (C10)	86		-		70-130	-		
Benzyl chloride	106		-		70-130	-		
1,3-Dichlorobenzene	96		-		70-130	-		
1,4-Dichlorobenzene	98		-		70-130	-		
sec-Butylbenzene	92		-		70-130	-		
p-Isopropyltoluene	87		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 Batch: WG1123624-3								
1,2-Dichlorobenzene	98		-		70-130	-		
n-Butylbenzene	97		-		70-130	-		
1,2-Dibromo-3-chloropropane	96		-		70-130	-		
Undecane	91		-		70-130	-		
Dodecane (C12)	102		-		70-130	-		
1,2,4-Trichlorobenzene	102		-		70-130	-		
Naphthalene	101		-		70-130	-		
1,2,3-Trichlorobenzene	100		-		70-130	-		
Hexachlorobutadiene	110		-		70-130	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-05 Batch: WG1123625-3								
Propylene	89		-		70-130	-		25
Dichlorodifluoromethane	89		-		70-130	-		25
Chloromethane	82		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	88		-		70-130	-		25
Vinyl chloride	85		-		70-130	-		25
1,3-Butadiene	89		-		70-130	-		25
Bromomethane	90		-		70-130	-		25
Chloroethane	93		-		70-130	-		25
Ethyl Alcohol	78		-		70-130	-		25
Vinyl bromide	89		-		70-130	-		25
Acetone	76		-		70-130	-		25
Trichlorofluoromethane	97		-		70-130	-		25
iso-Propyl Alcohol	75		-		70-130	-		25
Acrylonitrile	83		-		70-130	-		25
1,1-Dichloroethene	89		-		70-130	-		25
tert-Butyl Alcohol ¹	74		-		70-130	-		25
Methylene chloride	89		-		70-130	-		25
3-Chloropropene	95		-		70-130	-		25
Carbon disulfide	87		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	94		-		70-130	-		25
trans-1,2-Dichloroethene	95		-		70-130	-		25
1,1-Dichloroethane	98		-		70-130	-		25
Methyl tert butyl ether	94		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-05 Batch: WG1123625-3								
Vinyl acetate	107		-		70-130	-		25
2-Butanone	96		-		70-130	-		25
cis-1,2-Dichloroethene	92		-		70-130	-		25
Ethyl Acetate	96		-		70-130	-		25
Chloroform	98		-		70-130	-		25
Tetrahydrofuran	93		-		70-130	-		25
1,2-Dichloroethane	97		-		70-130	-		25
n-Hexane	88		-		70-130	-		25
1,1,1-Trichloroethane	96		-		70-130	-		25
Benzene	84		-		70-130	-		25
Carbon tetrachloride	100		-		70-130	-		25
Cyclohexane	86		-		70-130	-		25
Dibromomethane ¹	76		-		70-130	-		25
1,2-Dichloropropane	81		-		70-130	-		25
Bromodichloromethane	96		-		70-130	-		25
1,4-Dioxane	95		-		70-130	-		25
Trichloroethene	87		-		70-130	-		25
2,2,4-Trimethylpentane	89		-		70-130	-		25
cis-1,3-Dichloropropene	89		-		70-130	-		25
4-Methyl-2-pentanone	94		-		70-130	-		25
trans-1,3-Dichloropropene	79		-		70-130	-		25
1,1,2-Trichloroethane	89		-		70-130	-		25
Toluene	93		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-05 Batch: WG1123625-3								
2-Hexanone	105		-		70-130	-		25
Dibromochloromethane	114		-		70-130	-		25
1,2-Dibromoethane	98		-		70-130	-		25
Tetrachloroethene	92		-		70-130	-		25
1,1,1,2-Tetrachloroethane	93		-		70-130	-		25
Chlorobenzene	93		-		70-130	-		25
Ethylbenzene	95		-		70-130	-		25
p/m-Xylene	96		-		70-130	-		25
Bromoform	108		-		70-130	-		25
Styrene	93		-		70-130	-		25
1,1,2,2-Tetrachloroethane	96		-		70-130	-		25
o-Xylene	97		-		70-130	-		25
1,2,3-Trichloropropane ¹	89		-		70-130	-		25
Isopropylbenzene	93		-		70-130	-		25
Bromobenzene ¹	87		-		70-130	-		25
4-Ethyltoluene	102		-		70-130	-		25
1,3,5-Trimethylbenzene	97		-		70-130	-		25
1,2,4-Trimethylbenzene	103		-		70-130	-		25
Benzyl chloride	117		-		70-130	-		25
1,3-Dichlorobenzene	99		-		70-130	-		25
1,4-Dichlorobenzene	100		-		70-130	-		25
sec-Butylbenzene	95		-		70-130	-		25
p-Isopropyltoluene	90		-		70-130	-		25

Lab Control Sample Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-05 Batch: WG1123625-3								
1,2-Dichlorobenzene	103		-		70-130	-		25
n-Butylbenzene	104		-		70-130	-		25
1,2,4-Trichlorobenzene	105		-		70-130	-		25
Naphthalene	109		-		70-130	-		25
1,2,3-Trichlorobenzene	107		-		70-130	-		25
Hexachlorobutadiene	113		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-05 QC Batch ID: WG1123624-5 QC Sample: L1820352-02 Client ID: DUP Sample						
Vinyl chloride	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
Benzene	0.531	0.531	ppbV	0		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
Toluene	0.512	0.508	ppbV	1		25
Tetrachloroethene	0.293	0.309	ppbV	5		25
Ethylbenzene	ND	ND	ppbV	NC		25
p/m-Xylene	ND	ND	ppbV	NC		25
o-Xylene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	0.357	0.343	ppbV	4		25
1,2,3-Trimethylbenzene	ND	ND	ppbV	NC		25
Naphthalene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-05 QC Batch ID: WG1123625-5 QC Sample: L1820512-02 Client ID: DUP Sample						
Chloromethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.237	0.250	ppbV	5		25
Benzene	0.376	0.385	ppbV	2		25
Carbon tetrachloride	0.038	0.031	ppbV	20		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Trichloroethene	0.182	0.191	ppbV	5		25
Toluene	1.81	1.83	ppbV	1		25
Tetrachloroethene	19.2	19.5	ppbV	2		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.693	0.695	ppbV	0		25
p/m-Xylene	3.30	3.35	ppbV	2		25
o-Xylene	1.12	1.14	ppbV	2		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: 538-540 W29TH STREET

Project Number: 170515401

Lab Number: L1820382

Report Date: 06/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 04-05 QC Batch ID: WG1123625-5 QC Sample: L1820512-02 Client ID: DUP Sample						
1,3,5-Trimethylbenzene	0.672	0.580	ppbV	15		25
1,2,4-Trimethylbenzene	2.49	2.34	ppbV	6		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
Naphthalene	0.837	0.881	ppbV	5		25

Project Name: 538-540 W29TH STREET

Serial_No:06141816:45
Lab Number: L1820382

Project Number: 170515401

Report Date: 06/14/18

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L1820382-01	SV01_060118	01006	Flow 3	05/31/18	266792		-	-	-	Pass	17.9	17.7	1
L1820382-01	SV01_060118	2184	2.7L Can	05/31/18	266792	L1819345-02	Pass	-29.9	-6.3	-	-	-	-
L1820382-02	SV02_060118	01029	Flow 4	05/31/18	266792		-	-	-	Pass	18.0	17.2	5
L1820382-02	SV02_060118	1745	2.7L Can	05/31/18	266792	L1819345-02	Pass	-29.8	-6.0	-	-	-	-
L1820382-03	SV03_060118	0745	#30 SV	05/31/18	266792		-	-	-	Pass	18.0	18.6	3
L1820382-03	SV03_060118	478	2.7L Can	05/31/18	266792	L1819345-02	Pass	-29.9	-5.7	-	-	-	-
L1820382-04	SV04_060118	0931	Flow 3	05/31/18	266792		-	-	-	Pass	18.0	17.8	1
L1820382-04	SV04_060118	2241	2.7L Can	05/31/18	266792	L1819345-01	Pass	-28.4	-4.7	-	-	-	-
L1820382-05	SVAA_060118	0809	Flow 4	05/31/18	266792		-	-	-	Pass	18.0	19.0	5
L1820382-05	SVAA_060118	553	2.7L Can	05/31/18	266792	L1819345-02	Pass	-29.8	-4.7	-	-	-	-
L1820382-06	UNUSED CAN #2480	0235	Flow 5	05/31/18	266792		-	-	-	Pass	17.9	17.9	0
L1820382-06	UNUSED CAN #2480	2480	2.7L Can	05/31/18	266792	L1819345-01	Pass	-29.7	-29.7	-	-	-	-

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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/25/18 19:29
 Analyst: GJ

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

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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1

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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	79		60-140



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/25/18 19:29
 Analyst: GJ

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-01
 Client ID: CAN 522 SHELF 8
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	80		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	80		60-140

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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 05/25/18 20:04
 Analyst: GJ

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



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

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



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

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

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	79		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	79		60-140



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 05/25/18 20:04
 Analyst: GJ

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.024	0.020	--	0.163	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1



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

Lab Number: L1819345
Report Date: 06/14/18

Air Canister Certification Results

Lab ID: L1819345-02
 Client ID: CAN 561 SHELF 2
 Sample Location:

Date Collected: 05/24/18 16:00
 Date Received: 05/25/18
 Field Prep: Not Specified

Sample Depth:

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	79		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	78		60-140

Project Name: 538-540 W29TH STREET
Project Number: 170515401

Serial_No:06141816:45
Lab Number: L1820382
Report Date: 06/14/18

Sample Receipt and Container Information

Were project specific reporting limits specified?

YES

Cooler Information

Cooler	Custody Seal
N/A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L1820382-01A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1820382-02A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1820382-03A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30)
L1820382-04A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1820382-05A	Canister - 2.7 Liter	N/A	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L1820382-06A	Canister - 2.7 Liter	N/A	NA			Y	Absent		CLEAN-FEE()

Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

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

Terms

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

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

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

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

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

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related

Report Format: Data Usability Report



Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

Data Qualifiers

projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the reporting limit (RL) for the sample.

Project Name: 538-540 W29TH STREET
Project Number: 170515401

Lab Number: L1820382
Report Date: 06/14/18

REFERENCES

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

LIMITATION OF LIABILITIES

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

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



Certification Information

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

Westborough Facility

EPA 624: m/p-xylene, o-xylene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

EPA 300: DW: Bromide

EPA 6860: SCM: Perchlorate

EPA 9010: NPW and SCM: Amenable Cyanide Distillation

SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B

EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E,**

SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.

EPA 624: Volatile Halocarbons & Aromatics,

EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Be, Cd, Cr, Cu, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.

EPA 245.1 Hg.

SM2340B

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



AIR ANALYSIS

CHAIN OF CUSTODY

PAGE _____ OF _____

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

Client Information

Client: Lorcan
 Address: 360 W 31st St 8th Fl
NY, NY 10001
 Phone: 212 479-5400
 Fax:
 Email: esread@lorcan.com

Project Information

Project Name: 538-540 W 29th St
 Project Location: Manhattan
 Project #: 170515401
 Project Manager: Emily Smead
 ALPHA Quote #:

Turn-Around Time

Standard RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Date Rec'd in Lab: 6/2/18

ALPHA Job #: L1820382

Report Information - Data Deliverables

FAX
 ADEx
 Criteria Checker: _____
 (Default based on Regulatory Criteria Indicated)
 Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
 Report to: (if different than Project Manager)

Billing Information

Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION						Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH	Substrate Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum													
G20382-01	SV01_060118	6/1/18	07:44	14:02	-29.66	-6.48	SV	KG	2.7L	2184	1006	✓							
-02	SV02_060118	6/1/18	08:48	10:48	-27.74	-6.15	SV	KG	2.7L	1745	1029	✓							
-03	SV03_060118	6/1/18	12:00	14:00	-27.71	-5.6	SV	KG	2.7L	478	745	✓							
-04	SV04_060118	6/1/18	09:44	10:44	-28.44	-5.02	SV	KG	2.7L	2241	931	✓							
-05	SVAA_060118	6/1/18	12:49	14:49	-29.88	-4.78	AA	KG	2.7L	553	809	✓							

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
 SV = Soil Vapor/Landfill Gas/SVE
 Other = Please Specify

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time
<u>[Signature]</u>	<u>6/1/18 15:53</u>	<u>[Signature]</u>	<u>6/1/18 15:53</u>
<u>Daniel Santos AAC</u>	<u>6/2/18 01:00</u>	<u>[Signature]</u>	<u>6/2/18 01:00</u>

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.