

Appendix R
Material Reuse Request Submissions and
NYSDEC Approvals



**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

About 80 cubic yards of soil and fill material were excavated by Moncon, Inc. on 8/15/2018 and placed in a stockpile on poly sheeting for reuse sampling. Langan collected two grab samples and one composite sample for lab analysis consistent with NYSDEC CP-51 Table 4. The contractor may use this soil/fill material as backfill for the voids behind lagging walls inside or outside of the property boundary during SOE construction. See attached figure for proposed placement areas. The proposed reuse material will be field screened, tracked and documented by Langan field staff under the supervision of the PE.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

See attached analytical data table with comparisons to the Part 375 Unrestricted Use SCOs. No analytes exceeded the Unrestricted Use SCOs with the exception of acetone, which is a common laboratory artifact.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Excavated on-site soil/fill material meeting reuse criteria specified in NYSDEC-approved RAWP

Location where fill was obtained:

300 West 122nd Street (Former Shell BCP Site No. C231067)

Identification of any state or local approvals as a fill source:

N/A

If no approvals are available, provide a brief history of the use of the property that is the fill source:

See RIR and RAWP

Provide a list of supporting documentation included with this request:

See attached Table 1, Figure 1, Alpha Lab Report L1831933, and Daily Field Report (DFR) for 8/15/2018.

The information provided on this form is accurate and complete.



Signature

8/21/2018

Date

Gregory C. Wyka

Print Name

Langan

Firm

Table 1
Soil Analytical Results Summary
Materials Reuse - Grid 3 Stockpile

300 West 122nd Street
New York, New York
Langan Project No. 170500201
BCP Project No. C231067

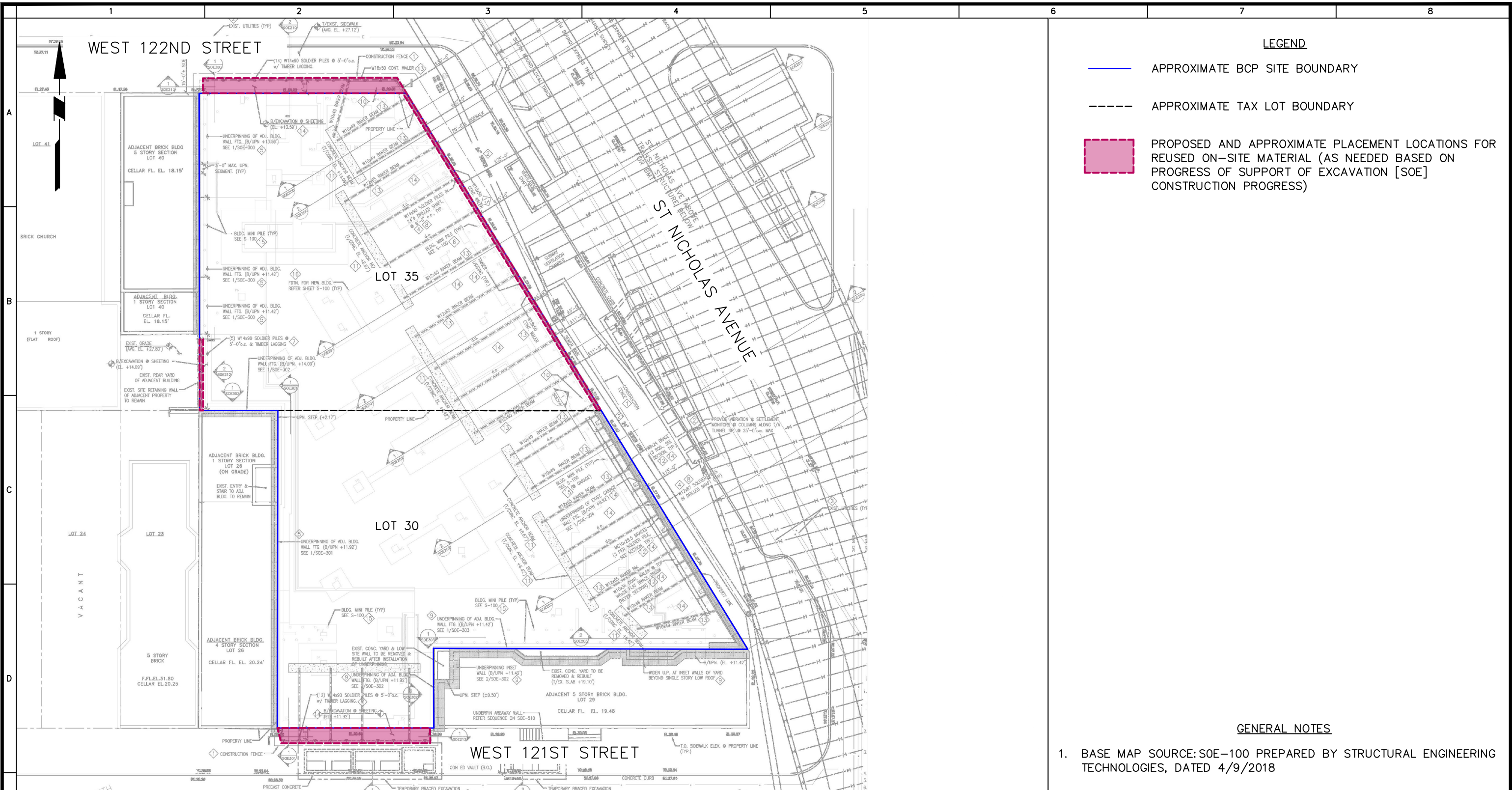
Sample ID Laboratory Sample ID Sample Date Sample Depth Interval (feet bgs)	NYSDEC UU SCO's	REUSE01_GRAB01_17-20 L1831933-01 8/15/2018 17-20	REUSE01_GRAB02_17-20 L1831933-02 8/15/2018 17-20	REUSE01_COMP01_17-20 L1831933-03 8/15/2018 17-20
Volatile Organic Compounds (VOCs) (mg/kg)				
Acetone	0.05	0.059	0.038	NA
Methyl tert butyl ether	0.93	0.0002 J	0.0022 U	NA
Tert-Butyl Alcohol	~	0.1	0.033	NA
Semivolatile Organic Compounds (SVOCs) (mg/kg)				
Acenaphthylene	100	NA	NA	0.037 J
Anthracene	100	NA	NA	0.049 J
Benzo(a)anthracene	1	NA	NA	0.14
Benzo(a)pyrene	1	NA	NA	0.12 J
Benzo(b)fluoranthene	1	NA	NA	0.18
Benzo(ghi)perylene	100	NA	NA	0.08 J
Benzo(k)fluoranthene	0.8	NA	NA	0.043 J
Chrysene	1	NA	NA	0.14
Dibenzo(a,h)anthracene	0.33	NA	NA	0.021 J
Fluoranthene	100	NA	NA	0.29
Fluorene	30	NA	NA	0.018 J
Indeno(1,2,3-cd)pyrene	0.5	NA	NA	0.081 J
Phenanthrene	100	NA	NA	0.16
Pyrene	100	NA	NA	0.25
Polychlorinated Biphenyls (PCBs) (mg/kg)				
Aroclor 1242	0.1	NA	NA	0.0118 J
Aroclor 1254	0.1	NA	NA	0.0125 J
Aroclor 1260	0.1	NA	NA	0.00405 J
PCBs, Total	0.1	NA	NA	0.0284 J
Pesticides (mg/kg)				
4,4'-DDE	0.0033	NA	NA	0.00101 J
4,4'-DDT	0.0033	NA	NA	0.00179 J
cis-Chlordane	0.094	NA	NA	0.00135 JPI
trans-Chlordane	~	NA	NA	0.00218 PI
Herbicides (mg/kg)				
Total Herbicides	~	ND	ND	ND
Inorganics (mg/kg)				
Aluminum, Total	~	NA	NA	3540
Arsenic, Total	13	NA	NA	1.78
Barium, Total	350	NA	NA	40.4
Beryllium, Total	7.2	NA	NA	0.152 J
Cadmium, Total	2.5	NA	NA	0.16 J
Calcium, Total	~	NA	NA	17600
Chromium, Total	~	NA	NA	8.47
Chromium, Trivalent	30	NA	NA	8.5
Cobalt, Total	~	NA	NA	3.44
Copper, Total	50	NA	NA	14.5
Iron, Total	~	NA	NA	6770
Lead, Total	63	NA	NA	59.9
Magnesium, Total	~	NA	NA	2160
Manganese, Total	1600	NA	NA	229
Mercury, Total	0.18	NA	NA	0.115
Nickel, Total	30	NA	NA	7.93
Potassium, Total	~	NA	NA	596
Sodium, Total	~	NA	NA	139 J
Vanadium, Total	~	NA	NA	9.62
Zinc, Total	109	NA	NA	43.2

Notes:

1. Grab and composite soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UU SCO's).
2. Only detected analytes are shown in table
2. Analytes with concentrations greater than the NYSDEC UU SCO's are shaded and bold.
3. mg/kg = milligram per kilogram
4. ~ = Criterion does not exist
5. NA = Not Analyzed
6. ND = Not Detected

Qualifiers:

- I = The lower value for the two columns has been reported due to obvious interference.
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
P = The relative percent difference between results for the two columns exceeds the method-specific criteria.
U = The analyte was analyzed for, but was not detected at a level greater than or equal to the RL ; the value shown in the table is the RL.



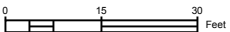
LEGEND

- APPROXIMATE BCP SITE BOUNDARY
- APPROXIMATE TAX LOT BOUNDARY
- PROPOSED AND APPROXIMATE PLACEMENT LOCATIONS FOR REUSED ON-SITE MATERIAL (AS NEEDED BASED ON PROGRESS OF SUPPORT OF EXCAVATION [SOE] CONSTRUCTION PROGRESS)

GENERAL NOTES

- BASE MAP SOURCE: SOE-100 PREPARED BY STRUCTURAL ENGINEERING TECHNOLOGIES, DATED 4/9/2018

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.



LANGAN

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Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**300 WEST 122ND
STREET**

**BLOCK No. 1948, LOT Nos. 30 & 35
MANHATTAN**

NEW YORK

NEW YORK

Figure Title

**CONSTRUCTION
SITE PLAN**

**PROPOSED
MATERIALS REUSE**

Project No.
170500201

Date
8/21/2018

Scale
1" = 30'

Drawn By
JL

Checked By
GCW

Submission Date

Figure No.

1

Sheet 1 of 1

DAILY FIELD REPORT

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	X
TEMP.	< 32		32-50		50-70		70-85	X	>85	

BCP Project No:	C231067	E-Number:	E-120 / 14EHAZ282M	Date:	August 15, 2018
Project Name:	300 West 122 nd Street				

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.	Langan Field Engineer: Daniel Eida
Construction Manager: Happy Living Development General Contractor: Happy Living Development Support of Excavation Contractor: Moncon Inc.	
Work Activities Performed (Since Last Report): • Moncon Inc. (Moncon) excavated historic fill from an approximately 3 feet by 1.5 feet by 10 feet area in Grid 3 (7-13) for underpinning work. The material was screened for odors, staining and organic vapors using a photoionization detector (PID). No field indicators of chemical or petroleum releases were observed in the excavated material. The material was temporarily placed back in its original location. • Moncon grouted support of excavation (SOE) piles located in Grid 2 about 120, 125 and 130 feet north of the southeast corner of the site, respectively. • Moncon excavated about 80 cubic yards of soil from Grid 3 (17-20) and stockpiled the material on polyethylene sheeting. Langan collected two grab and one composite sample from the stockpile for laboratory analysis of soil reuse parameters, the details of which are provided below. • Community Air Monitoring Plan (CAMP) was implemented at upwind (southeast) and downwind locations (northwest). Continuous monitoring was performed during construction activity. Particulate organic vapor action levels were not exceeded during the monitoring period at the downwind CAMP station.	

Samples Collected (Since Last Report :

Langan collected two grab and one composite sample from a stockpile of Grid 3 (17-20) soil. Soil samples REUSE01_GRAB01_17-20, REUSE01_GRAB02_17-20, REUSE01_COMP01_17-20 were submitted on ice in a cooler to Alpha Analytical Laboratories, Inc., of Westborough, Massachusetts for analysis of New York State Department of Environmental Conservation (NYSDEC) Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (including hexavalent/trivalent Chromium), and cyanide.

Air Monitoring (Since Last Report):

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)		
Daily background	0.03		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	0.045	0.038	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	0.074	0.055	Maximum 15-min Average	0.0	0.0
Minimum 1-min Instant Reading	0.030	0.027	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	0.120	0.089	Maximum 1-min Instant Reading	0.0	0.1

mg/m³ = micrograms per cubic meter. ppm= parts per million.

No particulate or organic vapor exceedances at the downwind CAMP station were encountered during the day.

Problems Encountered:

None

Planned Activities:

- Moncon will excavate Grid 3 (13-16) historic fill material for underpinning work.

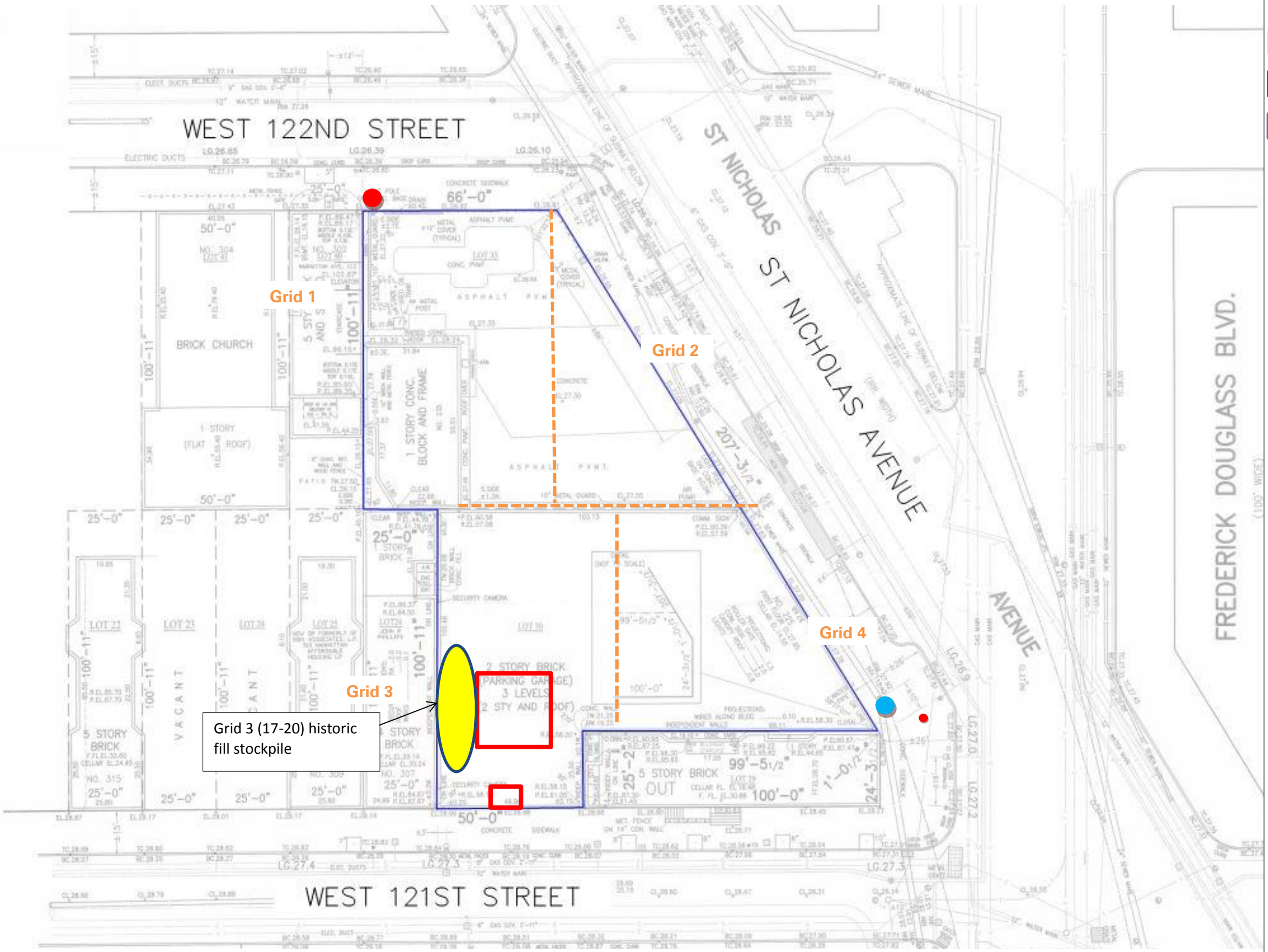
CONSTRUCTION/FOUNDATION - EXPORT/IMPORT SUMMARIES

MATERIALS EXPORT SUMMARY										
Facility Name	<i>Bayshore Soil Management, LLC</i>		<i>Resource Management Technologies, LLC</i>		<i>Aarco Environmental Services Corp.</i>		<i>ABC Tank Repair and Lining, Inc.</i>		<i>ABC Tank Repair and Lining, Inc.</i>	
Location	<i>Keasbey, NJ</i>		<i>North Bergen, NJ</i>		<i>Lindenhurst, NY</i>		<i>Brooklyn, NY</i>		<i>Brooklyn, NY</i>	
Type of Waste	<i>Non-Hazardous Fill Material</i>		<i>C&D Material</i>		<i>Non-hazardous Purge Water</i>		<i>Motor Oil</i>		<i>Tank Scrap Metal</i>	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Drums	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)
	-	-	-	-	-	-	-	-	-	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)
	267	5340	23	480	1	55	7	1600	9	3400

MATERIALS IMPORT SUMMARY									
Facility Name									
Location									
Type of Material									
Today	Number of Loads	Volume (CY)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	
	-	-	-	-	-	-	-	-	
Total	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	
	-	-	-	-	-	-	-	-	

SITE PLAN

LEGEND



- Approx. site boundary
- Approx. excavation/drilling areas
- Approx. grading area
- Approx. soil disposal grid boundary established by Clean Earth
- Upwind CAMP station
- Downwind CAMP station
- Approx. location of stockpile of excavated fill material from Grid 1 (10-16 bgs)
- Approx. location of stockpile of petroleum-impacted soil cuttings
- Approx. location of C&D stockpile
- Approx. former stockpile location
- Approx. location of RCA stockpile
- Approx. location of non-impacted soil cuttings
- Approx. location of stockpile of excavated fill material
- Approx. location of stockpile of excavated fill material from Grid 3
- Approximate UST location

Photo Log

Photo 1:

View of Moncon excavating historic fill from Grid 3 (7-13) for underpinning installation, facing southwest.



Photo 2:

View of Moncon laying out polyethylene sheeting for Grid 3 (17-20) stockpile, facing east.



Photo 3:

View of Grid 3 (17-20) historic fill stockpiled on polyethylene sheeting, facing south.



Photo 4:

View of grouted SOE piles, facing north.





ANALYTICAL REPORT

Lab Number:	L1831933
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	08/17/18

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

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



Project Name: 170500202**Project Number:** 170500202**Lab Number:** L1831933**Report Date:** 08/17/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1831933-01	REUSE01_GRAB01_17-20	SOIL	300 WEST 122ND ST.	08/15/18 11:00	08/15/18
L1831933-02	REUSE01_GRAB02_17-20	SOIL	300 WEST 122ND ST.	08/15/18 11:00	08/15/18
L1831933-03	REUSE01_COMP01_17-20	SOIL	300 WEST 122ND ST.	08/15/18 11:10	08/15/18

Project Name: 170500202**Lab Number:** L1831933**Project Number:** 170500202**Report Date:** 08/17/18

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: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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.

Total Metals

L1831933-03: 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.

Cyanide, Total

The WG1147227-3 LCSD recovery (72%), associated with L1831933-03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analysis 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:



Amita Naik

Title: Technical Director/Representative

Date: 08/17/18

ORGANICS

VOLATILES

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:57
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.8	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.4	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.48	0.19	1
Chlorobenzene	ND		ug/kg	0.48	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.67	1
1,2-Dichloroethane	ND		ug/kg	0.97	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.48	0.16	1
Bromodichloromethane	ND		ug/kg	0.48	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.48	0.15	1
1,3-Dichloropropene, Total	ND		ug/kg	0.48	0.15	1
1,1-Dichloropropene	ND		ug/kg	0.48	0.15	1
Bromoform	ND		ug/kg	3.9	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.48	0.16	1
Benzene	ND		ug/kg	0.48	0.16	1
Toluene	ND		ug/kg	0.97	0.52	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.90	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.32	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 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	0.48	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.16	1
Methyl tert butyl ether	0.20	J	ug/kg	1.9	0.19	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
Xylenes, Total	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
Dibromomethane	ND		ug/kg	1.9	0.23	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.88	1
Acetone	59		ug/kg	9.7	4.6	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.1	1
Vinyl acetate	ND		ug/kg	9.7	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
1,2,3-Trichloropropane	ND		ug/kg	1.9	0.12	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
Bromochloromethane	ND		ug/kg	1.9	0.20	1
2,2-Dichloropropane	ND		ug/kg	1.9	0.20	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
1,3-Dichloropropane	ND		ug/kg	1.9	0.16	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.48	0.13	1
Bromobenzene	ND		ug/kg	1.9	0.14	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
o-Chlorotoluene	ND		ug/kg	1.9	0.18	1
p-Chlorotoluene	ND		ug/kg	1.9	0.10	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.96	1
Hexachlorobutadiene	ND		ug/kg	3.9	0.16	1
Isopropylbenzene	ND		ug/kg	0.97	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.10	1
Naphthalene	ND		ug/kg	3.9	0.63	1
Acrylonitrile	ND		ug/kg	3.9	1.1	1
Tert-Butyl Alcohol	100		ug/kg	19	5.0	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01
 Client ID: REUSE01_GRAB01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 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	0.97	0.16	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.9	0.31	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.9	0.92	1
Acrolein	ND		ug/kg	24	5.4	1
Cyclohexane	ND		ug/kg	9.7	0.52	1
1,4-Dioxane	ND		ug/kg	97	34.	1
Freon-113	ND		ug/kg	3.9	0.67	1
p-Diethylbenzene	ND		ug/kg	1.9	0.17	1
p-Ethyltoluene	ND		ug/kg	1.9	0.37	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.9	0.18	1
Ethyl ether	ND		ug/kg	1.9	0.33	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.8	1.4	1
Methyl cyclohexane	ND		ug/kg	3.9	0.58	1

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

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 08/16/18 21:23
 Analyst: JC
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 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	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	38		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1
Tert-Butyl Alcohol	33		ug/kg	22	5.7	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02
 Client ID: REUSE01_GRAB02_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00
 Date Received: 08/15/18
 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	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Acrolein	ND		ug/kg	28	6.2	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	110	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	111		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:30
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	0.74	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:30
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 08/16/18 20:30
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 170500202**Lab Number:** L1831933**Project Number:** 170500202**Report Date:** 08/17/18**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C
Analytical Date: 08/16/18 20:30
Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by 8260/5035 - Westborough Lab for sample(s): 01-02 Batch: WG1147681-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	94		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	94		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
Methylene chloride	105		96		70-130	9		30
1,1-Dichloroethane	106		106		70-130	0		30
Chloroform	109		105		70-130	4		30
Carbon tetrachloride	119		118		70-130	1		30
1,2-Dichloropropane	113		114		70-130	1		30
Dibromochloromethane	108		106		70-130	2		30
1,1,2-Trichloroethane	114		113		70-130	1		30
Tetrachloroethene	127		117		70-130	8		30
Chlorobenzene	111		105		70-130	6		30
Trichlorofluoromethane	118		112		70-139	5		30
1,2-Dichloroethane	110		108		70-130	2		30
1,1,1-Trichloroethane	115		112		70-130	3		30
Bromodichloromethane	113		110		70-130	3		30
trans-1,3-Dichloropropene	112		112		70-130	0		30
cis-1,3-Dichloropropene	119		119		70-130	0		30
1,1-Dichloropropene	120		117		70-130	3		30
Bromoform	103		102		70-130	1		30
1,1,2,2-Tetrachloroethane	107		103		70-130	4		30
Benzene	109		107		70-130	2		30
Toluene	124		110		70-130	12		30
Ethylbenzene	115		110		70-130	4		30
Chloromethane	116		108		52-130	7		30
Bromomethane	124		112		57-147	10		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
Vinyl chloride	128		122		67-130	5		30
Chloroethane	125		119		50-151	5		30
1,1-Dichloroethene	109		104		65-135	5		30
trans-1,2-Dichloroethene	114		108		70-130	5		30
Trichloroethene	120		117		70-130	3		30
1,2-Dichlorobenzene	105		104		70-130	1		30
1,3-Dichlorobenzene	110		108		70-130	2		30
1,4-Dichlorobenzene	106		104		70-130	2		30
Methyl tert butyl ether	104		102		66-130	2		30
p/m-Xylene	125		112		70-130	11		30
o-Xylene	121		109		70-130	10		30
cis-1,2-Dichloroethene	109		105		70-130	4		30
Dibromomethane	113		110		70-130	3		30
Styrene	101		91		70-130	10		30
Dichlorodifluoromethane	130		122		30-146	6		30
Acetone	112		107		54-140	5		30
Carbon disulfide	93		88		59-130	6		30
2-Butanone	116		117		70-130	1		30
Vinyl acetate	104		99		70-130	5		30
4-Methyl-2-pentanone	102		102		70-130	0		30
1,2,3-Trichloropropane	106		103		68-130	3		30
2-Hexanone	96		105		70-130	9		30
Bromochloromethane	111		106		70-130	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
2,2-Dichloropropane	118		114		70-130	3		30
1,2-Dibromoethane	112		112		70-130	0		30
1,3-Dichloropropane	107		110		69-130	3		30
1,1,1,2-Tetrachloroethane	116		105		70-130	10		30
Bromobenzene	102		101		70-130	1		30
n-Butylbenzene	124		120		70-130	3		30
sec-Butylbenzene	120		117		70-130	3		30
tert-Butylbenzene	115		113		70-130	2		30
o-Chlorotoluene	108		106		70-130	2		30
p-Chlorotoluene	110		109		70-130	1		30
1,2-Dibromo-3-chloropropane	103		88		68-130	16		30
Hexachlorobutadiene	117		98		67-130	18		30
Isopropylbenzene	111		109		70-130	2		30
p-Isopropyltoluene	119		116		70-130	3		30
Naphthalene	104		92		70-130	12		30
Acrylonitrile	102		103		70-130	1		30
Tert-Butyl Alcohol	110		110		70-130	0		30
n-Propylbenzene	112		110		70-130	2		30
1,2,3-Trichlorobenzene	108		96		70-130	12		30
1,2,4-Trichlorobenzene	112		97		70-130	14		30
1,3,5-Trimethylbenzene	112		110		70-130	2		30
1,2,4-Trimethylbenzene	115		114		70-130	1		30
Methyl Acetate	110		105		51-146	5		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by 8260/5035 - Westborough Lab Associated sample(s): 01-02 Batch: WG1147681-3 WG1147681-4								
Acrolein	101		85		70-130	17		30
Cyclohexane	113		108		59-142	5		30
1,4-Dioxane	102		103		65-136	1		30
Freon-113	119		109		50-139	9		30
p-Diethylbenzene	118		116		70-130	2		30
p-Ethyltoluene	112		111		70-130	1		30
1,2,4,5-Tetramethylbenzene	94		84		70-130	11		30
Ethyl ether	95		94		67-130	1		30
trans-1,4-Dichloro-2-butene	104		105		70-130	1		30
Methyl cyclohexane	126		123		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		101		70-130
Toluene-d8	110		101		70-130
4-Bromofluorobenzene	95		97		70-130
Dibromofluoromethane	97		97		70-130

SEMIVOLATILES

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 08/16/18 13:43
 Analyst: RC
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 08/16/18 02:36

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	570	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	290		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	140		ug/kg	100	19.	1
Benzo(a)pyrene	120	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	180		ug/kg	100	29.	1
Benzo(k)fluoranthene	43	J	ug/kg	100	28.	1
Chrysene	140		ug/kg	100	18.	1
Acenaphthylene	37	J	ug/kg	140	27.	1
Anthracene	49	J	ug/kg	100	34.	1
Benzo(ghi)perylene	80	J	ug/kg	140	20.	1
Fluorene	18	J	ug/kg	170	17.	1
Phenanthrene	160		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	21	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	81	J	ug/kg	140	24.	1
Pyrene	250		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	230	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	92		10-120
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	90		18-120

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
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	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
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	460	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.

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
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	67.
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.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
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.

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
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	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	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 08/16/18 10:26
 Analyst: RC

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 20:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1146985-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	72		30-120
2,4,6-Tribromophenol	73		10-136
4-Terphenyl-d14	70		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
Acenaphthene	73		80		31-137	9		50
Benzidine	28		26		10-66	7		50
1,2,4-Trichlorobenzene	71		74		38-107	4		50
Hexachlorobenzene	77		79		40-140	3		50
Bis(2-chloroethyl)ether	78		79		40-140	1		50
2-Chloronaphthalene	78		83		40-140	6		50
1,2-Dichlorobenzene	71		74		40-140	4		50
1,3-Dichlorobenzene	71		75		40-140	5		50
1,4-Dichlorobenzene	69		73		28-104	6		50
3,3'-Dichlorobenzidine	60		63		40-140	5		50
2,4-Dinitrotoluene	79		86		40-132	8		50
2,6-Dinitrotoluene	82		81		40-140	1		50
Azobenzene	84		87		40-140	4		50
Fluoranthene	78		79		40-140	1		50
4-Chlorophenyl phenyl ether	72		75		40-140	4		50
4-Bromophenyl phenyl ether	75		77		40-140	3		50
Bis(2-chloroisopropyl)ether	82		88		40-140	7		50
Bis(2-chloroethoxy)methane	81		84		40-117	4		50
Hexachlorobutadiene	71		77		40-140	8		50
Hexachlorocyclopentadiene	64		72		40-140	12		50
Hexachloroethane	76		76		40-140	0		50
Isophorone	84		86		40-140	2		50
Naphthalene	72		78		40-140	8		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
Nitrobenzene	81		84		40-140	4		50
NDPA/DPA	76		80		36-157	5		50
n-Nitrosodi-n-propylamine	82		86		32-121	5		50
Bis(2-ethylhexyl)phthalate	82		83		40-140	1		50
Butyl benzyl phthalate	85		84		40-140	1		50
Di-n-butylphthalate	80		82		40-140	2		50
Di-n-octylphthalate	85		88		40-140	3		50
Diethyl phthalate	80		83		40-140	4		50
Dimethyl phthalate	82		83		40-140	1		50
Benzo(a)anthracene	73		77		40-140	5		50
Benzo(a)pyrene	80		86		40-140	7		50
Benzo(b)fluoranthene	79		83		40-140	5		50
Benzo(k)fluoranthene	74		82		40-140	10		50
Chrysene	75		81		40-140	8		50
Acenaphthylene	78		81		40-140	4		50
Anthracene	78		80		40-140	3		50
Benzo(ghi)perylene	77		81		40-140	5		50
Fluorene	77		81		40-140	5		50
Phenanthrene	76		79		40-140	4		50
Dibenzo(a,h)anthracene	77		84		40-140	9		50
Indeno(1,2,3-cd)pyrene	77		84		40-140	9		50
Pyrene	79		78		35-142	1		50
Biphenyl	81		85		54-104	5		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
4-Chloroaniline	87		89		40-140	2		50
2-Nitroaniline	82		84		47-134	2		50
3-Nitroaniline	69		74		26-129	7		50
4-Nitroaniline	76		80		41-125	5		50
Dibenzofuran	74		78		40-140	5		50
2-Methylnaphthalene	75		79		40-140	5		50
1,2,4,5-Tetrachlorobenzene	75		80		40-117	6		50
Acetophenone	84		87		14-144	4		50
n-Nitrosodimethylamine	74		80		22-100	8		50
2,4,6-Trichlorophenol	80		87		30-130	8		50
p-Chloro-m-cresol	86		90		26-103	5		50
2-Chlorophenol	80		82		25-102	2		50
2,4-Dichlorophenol	83		85		30-130	2		50
2,4-Dimethylphenol	87		89		30-130	2		50
2-Nitrophenol	76		81		30-130	6		50
4-Nitrophenol	102		103		11-114	1		50
2,4-Dinitrophenol	69		71		4-130	3		50
4,6-Dinitro-o-cresol	72		74		10-130	3		50
Pentachlorophenol	77		76		17-109	1		50
Phenol	79		81		26-90	3		50
2-Methylphenol	83		84		30-130	1		50
3-Methylphenol/4-Methylphenol	89		91		30-130	2		50
2,4,5-Trichlorophenol	83		83		30-130	0		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1146985-2 WG1146985-3								
Benzoic Acid	37		39		10-110	5		50
Benzyl Alcohol	85		88		40-140	3		50
Carbazole	80		81		54-128	1		50
Atrazine	97		96		40-140	1		50
Benzaldehyde	64		66		40-140	3		50
Caprolactam	87		93		15-130	7		50
2,3,4,6-Tetrachlorophenol	75		79		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	83		84		25-120
Phenol-d6	87		88		10-120
Nitrobenzene-d5	84		86		23-120
2-Fluorobiphenyl	78		78		30-120
2,4,6-Tribromophenol	82		85		10-136
4-Terphenyl-d14	79		76		18-120

PCBS

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 08/17/18 01:48
 Analyst: WR
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 08/16/18 02:31
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/16/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.7	3.93	1	A
Aroclor 1221	ND		ug/kg	34.7	5.28	1	A
Aroclor 1232	ND		ug/kg	34.7	3.41	1	A
Aroclor 1242	11.8	J	ug/kg	34.7	4.24	1	B
Aroclor 1248	ND		ug/kg	34.7	3.89	1	A
Aroclor 1254	12.5	J	ug/kg	34.7	2.83	1	B
Aroclor 1260	4.05	J	ug/kg	34.7	3.62	1	A
Aroclor 1262	ND		ug/kg	34.7	2.85	1	A
Aroclor 1268	ND		ug/kg	34.7	2.45	1	A
PCBs, Total	28.4	J	ug/kg	34.7	2.45	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	86		30-150	B

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 08/16/18 12:27
 Analyst: WR

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 08:33
 Cleanup Method: EPA 3665A
 Cleanup Date: 08/16/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1146666-1						
Aroclor 1016	ND		ug/kg	33.0	3.74	A
Aroclor 1221	ND		ug/kg	33.0	5.02	A
Aroclor 1232	ND		ug/kg	33.0	3.24	A
Aroclor 1242	ND		ug/kg	33.0	4.03	A
Aroclor 1248	22.2	J	ug/kg	33.0	3.70	A
Aroclor 1254	ND		ug/kg	33.0	2.69	A
Aroclor 1260	ND		ug/kg	33.0	3.44	A
Aroclor 1262	ND		ug/kg	33.0	2.71	A
Aroclor 1268	ND		ug/kg	33.0	2.33	A
PCBs, Total	22.2	J	ug/kg	33.0	2.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	97		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	94		30-150	B
Decachlorobiphenyl	110		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1146666-2 WG1146666-3									
Aroclor 1016	65		64		40-140	2		50	A
Aroclor 1260	58		55		40-140	5		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		97		30-150	A
Decachlorobiphenyl	84		79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		81		30-150	B
Decachlorobiphenyl	97		80		30-150	B

PESTICIDES

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 08/16/18 15:10
 Analyst: KEG
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 08/16/18 02:30
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.66	0.325	1	A
Lindane	ND		ug/kg	0.691	0.309	1	A
Alpha-BHC	ND		ug/kg	0.691	0.196	1	A
Beta-BHC	ND		ug/kg	1.66	0.629	1	A
Heptachlor	ND		ug/kg	0.829	0.372	1	A
Aldrin	ND		ug/kg	1.66	0.584	1	A
Heptachlor epoxide	ND		ug/kg	3.11	0.933	1	A
Endrin	ND		ug/kg	0.691	0.283	1	A
Endrin aldehyde	ND		ug/kg	2.07	0.726	1	A
Endrin ketone	ND		ug/kg	1.66	0.427	1	A
Dieldrin	ND	PI	ug/kg	1.04	0.518	1	A
4,4'-DDE	1.01	J	ug/kg	1.66	0.384	1	A
4,4'-DDD	ND		ug/kg	1.66	0.592	1	A
4,4'-DDT	1.79	J	ug/kg	3.11	1.33	1	B
Endosulfan I	ND		ug/kg	1.66	0.392	1	A
Endosulfan II	ND		ug/kg	1.66	0.554	1	A
Endosulfan sulfate	ND		ug/kg	0.691	0.329	1	A
Methoxychlor	ND		ug/kg	3.11	0.968	1	A
Toxaphene	ND		ug/kg	31.1	8.71	1	A
cis-Chlordane	1.35	JPI	ug/kg	2.07	0.578	1	B
trans-Chlordane	2.18	PI	ug/kg	2.07	0.547	1	A
Chlordane	ND		ug/kg	13.5	5.49	1	A

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03

Date Collected: 08/15/18 11:10

Client ID: REUSE01_COMP01_17-20

Date Received: 08/15/18

Sample Location: 300 WEST 122ND ST.

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	91		30-150	B
Decachlorobiphenyl	74		30-150	B
2,4,5,6-Tetrachloro-m-xylene	110		30-150	A
Decachlorobiphenyl	63		30-150	A

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
Client ID: REUSE01_COMP01_17-20
Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
Date Received: 08/15/18
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/17/18 12:01
Analyst: SL
Percent Solids: 94%
Methylation Date: 08/17/18 06:16

Extraction Method: EPA 8151A
Extraction Date: 08/16/18 07:59

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4-D	ND		ug/kg	176	11.1	1	A
2,4,5-T	ND		ug/kg	176	5.46	1	A
2,4,5-TP (Silvex)	ND		ug/kg	176	4.68	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	79		30-150	B

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 08/16/18 13:53
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 08:31
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1146665-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.650	0.291	A
Alpha-BHC	ND		ug/kg	0.650	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.592	A
Heptachlor	ND		ug/kg	0.780	0.350	A
Aldrin	ND		ug/kg	1.56	0.549	A
Heptachlor epoxide	ND		ug/kg	2.92	0.878	A
Endrin	ND		ug/kg	0.650	0.266	A
Endrin aldehyde	ND		ug/kg	1.95	0.683	A
Endrin ketone	ND		ug/kg	1.56	0.402	A
Dieldrin	ND		ug/kg	0.975	0.488	A
4,4'-DDE	ND		ug/kg	1.56	0.361	A
4,4'-DDD	ND		ug/kg	1.56	0.556	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.369	A
Endosulfan II	ND		ug/kg	1.56	0.521	A
Endosulfan sulfate	ND		ug/kg	0.650	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.910	A
Toxaphene	ND		ug/kg	29.2	8.19	A
cis-Chlordane	ND		ug/kg	1.95	0.544	A
trans-Chlordane	ND		ug/kg	1.95	0.515	A
Chlordane	ND		ug/kg	12.7	5.17	A

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 08/16/18 13:53
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 08/15/18 08:31
 Cleanup Method: EPA 3620B
 Cleanup Date: 08/16/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1146665-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	87		30-150	A
Decachlorobiphenyl	69		30-150	A

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 08/17/18 14:59
 Analyst: SL

Extraction Method: EPA 8151A
 Extraction Date: 08/16/18 06:42

Methylation Date: 08/17/18 06:16

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03 Batch: WG1147122-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.05	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	74		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1146665-2 WG1146665-3									
Delta-BHC	55		86		30-150	44	Q	30	A
Lindane	57		90		30-150	45	Q	30	A
Alpha-BHC	57		87		30-150	42	Q	30	A
Beta-BHC	61		96		30-150	45	Q	30	A
Heptachlor	91		131		30-150	36	Q	30	A
Aldrin	61		94		30-150	43	Q	30	A
Heptachlor epoxide	66		100		30-150	41	Q	30	A
Endrin	66		101		30-150	42	Q	30	A
Endrin aldehyde	56		83		30-150	39	Q	30	A
Endrin ketone	58		90		30-150	43	Q	30	A
Dieldrin	66		101		30-150	42	Q	30	A
4,4'-DDE	55		85		30-150	43	Q	30	A
4,4'-DDD	64		96		30-150	40	Q	30	A
4,4'-DDT	71		105		30-150	39	Q	30	A
Endosulfan I	61		93		30-150	42	Q	30	A
Endosulfan II	63		97		30-150	43	Q	30	A
Endosulfan sulfate	66		97		30-150	38	Q	30	A
Methoxychlor	70		104		30-150	39	Q	30	A
cis-Chlordane	49		78		30-150	46	Q	30	A
trans-Chlordane	50		74		30-150	39	Q	30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1146665-2 WG1146665-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		91		30-150	B
Decachlorobiphenyl	61		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	64		97		30-150	A
Decachlorobiphenyl	49		78		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1147122-2 WG1147122-3									
2,4-D	105		109		30-150	4		30	A
2,4,5-T	72		74		30-150	3		30	A
2,4,5-TP (Silvex)	85		78		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		114		30-150	A
DCAA	82		88		30-150	B

METALS

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03
 Client ID: REUSE01_COMP01_17-20
 Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:10
 Date Received: 08/15/18
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3540		mg/kg	7.98	2.16	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	3.99	0.303	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Arsenic, Total	1.78		mg/kg	0.798	0.166	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Barium, Total	40.4		mg/kg	0.798	0.139	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Beryllium, Total	0.152	J	mg/kg	0.399	0.026	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Cadmium, Total	0.160	J	mg/kg	0.798	0.078	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Calcium, Total	17600		mg/kg	7.98	2.79	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Chromium, Total	8.47		mg/kg	0.798	0.077	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Cobalt, Total	3.44		mg/kg	1.60	0.132	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Copper, Total	14.5		mg/kg	0.798	0.206	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Iron, Total	6770		mg/kg	3.99	0.721	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Lead, Total	59.9		mg/kg	3.99	0.214	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Magnesium, Total	2160		mg/kg	7.98	1.23	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Manganese, Total	229		mg/kg	0.798	0.127	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Mercury, Total	0.115		mg/kg	0.067	0.014	1	08/16/18 07:00	08/16/18 15:28	EPA 7471B	1,7471B	MG
Nickel, Total	7.93		mg/kg	2.00	0.193	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Potassium, Total	596		mg/kg	200	11.5	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.60	0.206	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.798	0.226	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Sodium, Total	139	J	mg/kg	160	2.51	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.60	0.251	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Vanadium, Total	9.62		mg/kg	0.798	0.162	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC
Zinc, Total	43.2		mg/kg	3.99	0.234	2	08/17/18 09:30	08/17/18 15:48	EPA 3050B	1,6010D	LC

General Chemistry - Mansfield Lab

Chromium, Trivalent	8.5		mg/kg	0.85	0.85	1		08/17/18 15:48	NA	107,-	



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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): 03 Batch: WG1147101-1										
Mercury, Total	0.023	J	mg/kg	0.083	0.018	1	08/16/18 07:00	08/16/18 10:39	1,7471B	MG

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): 03 Batch: WG1147666-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Arsenic, Total	0.084	J	mg/kg	0.400	0.083	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Iron, Total	ND		mg/kg	2.00	0.361	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Sodium, Total	2.18	J	mg/kg	80.0	1.26	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/17/18 09:30	08/17/18 14:54	1,6010D	LC

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1147101-2 SRM Lot Number: D098-540								
Mercury, Total	102		-		50-149	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1147666-2 SRM Lot Number: D098-540					
Aluminum, Total	65	-	47-153	-	
Antimony, Total	144	-	6-194	-	
Arsenic, Total	99	-	83-117	-	
Barium, Total	92	-	82-118	-	
Beryllium, Total	94	-	83-117	-	
Cadmium, Total	106	-	82-117	-	
Calcium, Total	91	-	81-118	-	
Chromium, Total	94	-	83-119	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	94	-	84-116	-	
Iron, Total	84	-	60-140	-	
Lead, Total	96	-	82-117	-	
Magnesium, Total	78	-	76-124	-	
Manganese, Total	94	-	82-118	-	
Nickel, Total	100	-	82-117	-	
Potassium, Total	79	-	69-131	-	
Selenium, Total	102	-	78-121	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	94	-	74-126	-	
Thallium, Total	103	-	80-119	-	
Vanadium, Total	93	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 170500202**Project Number:** 170500202**Lab Number:** L1831933**Report Date:** 08/17/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1147666-2 SRM Lot Number: D098-540					
Zinc, Total	97	-	81-119	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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): 03 QC Batch ID: WG1147101-3 QC Sample: L1831896-01 Client ID: MS Sample												
Mercury, Total	0.073	0.141	0.269	139	Q	-	-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

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 QC Batch ID: WG1147666-3 QC Sample: L1831042-04 Client ID: MS Sample									
Aluminum, Total	6160	188	7160	532	Q	-	75-125	-	20
Antimony, Total	ND	47	26.2	56	Q	-	75-125	-	20
Arsenic, Total	6.22	11.3	14.0	69	Q	-	75-125	-	20
Barium, Total	45.8	188	167	64	Q	-	75-125	-	20
Beryllium, Total	0.564	4.7	3.54	63	Q	-	75-125	-	20
Cadmium, Total	0.206J	4.8	3.17	66	Q	-	75-125	-	20
Calcium, Total	1270	940	1790	55	Q	-	75-125	-	20
Chromium, Total	8.07	18.8	19.6	61	Q	-	75-125	-	20
Cobalt, Total	5.98	47	33.7	59	Q	-	75-125	-	20
Copper, Total	10.8	23.5	26.1	65	Q	-	75-125	-	20
Iron, Total	12300	94	12200	0	Q	-	75-125	-	20
Lead, Total	12.6	48	42.4	62	Q	-	75-125	-	20
Magnesium, Total	1500	940	2170	71	Q	-	75-125	-	20
Manganese, Total	174.	47	203	62	Q	-	75-125	-	20
Nickel, Total	7.29	47	35.1	59	Q	-	75-125	-	20
Potassium, Total	440.	940	1130	73	Q	-	75-125	-	20
Selenium, Total	0.293J	11.3	7.59	67	Q	-	75-125	-	20
Silver, Total	ND	28.2	19.0	67	Q	-	75-125	-	20
Sodium, Total	235.	940	816	62	Q	-	75-125	-	20
Thallium, Total	ND	11.3	6.57	58	Q	-	75-125	-	20
Vanadium, Total	15.9	47	46.6	65	Q	-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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 QC Batch ID: WG1147666-3 QC Sample: L1831042-04 Client ID: MS Sample									
Zinc, Total	45.6	47	78.5	70	Q	-	-	75-125	- 20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147101-4 QC Sample: L1831896-01 Client ID: DUP Sample						
Mercury, Total	0.073	0.088	mg/kg	18		20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1147666-4 QC Sample: L1831042-04 Client ID: DUP Sample						
Lead, Total	12.6	14.9	mg/kg	17		20

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-01

Client ID: REUSE01_GRAB01_17-20

Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00

Date Received: 08/15/18

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	93.7		%	0.100	NA	1	-	08/16/18 03:28	121,2540G	FN



Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-02

Client ID: REUSE01_GRAB02_17-20

Sample Location: 300 WEST 122ND ST.

Date Collected: 08/15/18 11:00

Date Received: 08/15/18

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	93.8		%	0.100	NA	1	-	08/16/18 03:28	121,2540G	FN



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

SAMPLE RESULTS

Lab ID: L1831933-03

Date Collected: 08/15/18 11:10

Client ID: REUSE01_COMP01_17-20

Date Received: 08/15/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.2		%	0.100	NA	1	-	08/16/18 04:42	121,2540G	FN
Cyanide, Total	ND		mg/kg	1.0	0.21	1	08/16/18 11:35	08/16/18 14:45	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.849	0.170	1	08/16/18 18:30	08/17/18 10:46	1,7196A	NH



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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): 03 Batch: WG1147227-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	08/16/18 11:35	08/16/18 14:39	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1147488-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/16/18 18:30	08/17/18 10:46	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1147227-2 WG1147227-3								
Cyanide, Total	80		72	Q	80-120	11		35
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1147488-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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): 03 QC Batch ID: WG1147227-4 WG1147227-5 QC Sample: L1831933-03 Client ID: REUSE01_COMP01_17-20												
Cyanide, Total	ND	10	9.9	99		10	100		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147488-4 QC Sample: L1831933-03 Client ID: REUSE01_COMP01_17-20												
Chromium, Hexavalent	ND	791	736	93		-	-		75-125	-		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 170500202

Project Number: 170500202

Lab Number: L1831933

Report Date: 08/17/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1147062-1 QC Sample: L1831582-01 Client ID: DUP Sample						
Solids, Total	87.5	87.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147081-1 QC Sample: L1831931-01 Client ID: DUP Sample						
Solids, Total	27.0	21.9	%	21	Q	20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1147488-6 QC Sample: L1831933-03 Client ID: REUSE01_COMP01_17-20						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 170500202
Project Number: 170500202

Serial_No:08171819:22
Lab Number: L1831933
Report Date: 08/17/18

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(*)
L1831933-01A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1831933-01B	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-01C	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-01D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1831933-02A	Vial MeOH preserved	A	NA		4.9	Y	Absent		NYTCL-8260HLW(14)
L1831933-02B	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-02C	Vial water preserved	A	NA		4.9	Y	Absent	16-AUG-18 02:53	NYTCL-8260HLW(14)
L1831933-02D	Plastic 2oz unpreserved for TS	A	NA		4.9	Y	Absent		TS(7)
L1831933-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.9	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)
L1831933-03B	Glass 120ml/4oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1831933-03C	Glass 500ml/16oz unpreserved	A	NA		4.9	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202

Lab Number: L1831933

Project Number: 170500202

Report Date: 08/17/18

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 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.

Project Name: 170500202
Project Number: 170500202

Lab Number: L1831933
Report Date: 08/17/18

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 _____ of _____		Date Rec'd in Lab 8/15/18		ALPHA Job # L1831933						
		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 Project Name: 17050202 Project Location: 300 WEST 122ND ST Project # 17050202 (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☒ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other EMAIL		Billing Information ☐ Same as Client Info PO # _____				
Client Information Client: LANGAN Address: 360 WEST 31ST 8TH FLOOR Phone: 212-479-5400 Fax: _____ Email: GWYKA@LANGAN.COM		Project Manager: GREG WYKA ALPHAQuote #: _____ Turn-Around Time Standard ☒ Rush (only if pre approved) ☒		Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☐ Other ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other: _____		Due Date: _____ # of Days: 2 DAY RUSH						
These samples have been previously analyzed by Alpha ☐										ANALYSIS		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles
Other project specific requirements/comments: _____										375 SVOL'S, PCB'S PEST, HERB, METALS HX/TRI CHROM CYANIDE		Sample Specific Comments		
Please specify Metals or TAL. _____														
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection		Sample Matrix		Sampler's Initials						
				Date Time										
31933 - 01		REUSEOL-GRAB01-17-20		08/15 1100		SOIL		DE		01				
- 02		REUSEOL-GRAB02-17-20		08/15 1100		SOIL		DE		02				
- 03		REUSEOL-COMP01-17-20		08/15 1110		SOIL		DE		03				
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: D. Santos AAL		Date/Time: 08/15 1334		Received By: Prineik Jackson AAL		Date/Time: 08/15 1334								
Relinquished By: D. Santos AAL		Date/Time: 8/15/18 1714		Received By: A. Santos AAL		Date/Time: 8/15/18 1830								
Relinquished By: D. Santos AAL		Date/Time: 8/15/18 2340		Received By: [Signature]		Date/Time: 8/15/18 2340								

From: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Sent: Tuesday, August 28, 2018 11:21 AM
To: Greg Wyka
Cc: O'Connell, Jane H (DEC); Julia Leung
Subject: RE: Former Shell C231067 - Soil Reuse Request

Greg: The Department has reviewed the request dated 8/21/18 to reuse 80 cubic yards of soil at the Former Shell Service Station and Parking Garage (site number C231067) site. Based on the information provided, the request is hereby approved. Nigel

Nigel N. Crawford, P.E.

Environmental Engineer 2,
Division of Environmental Remediation

New York State Department of Environmental Conservation

NYSDEC Region 2
47-40 21st Street, LIC New York 11101
P: (718) 482-7778 | F: (718) 482-6358
nigel.crawford@dec.ny.gov
www.dec.ny.gov

From: Greg Wyka [<mailto:gwyka@langan.com>]
Sent: Tuesday, August 21, 2018 10:04 AM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Cc: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; Mimi Raygorodetsky <mraygorodetsky@langan.com>; Julia Leung <JLeung@Langan.com>; Daniel Eida <deida@langan.com>; David Yudelson <dyudelson@sprlaw.com>; Levi Balkany (Levi@happylivingdev.com) <Levi@happylivingdev.com>; Naftali L <naftalil@happylivingdev.com> (naftalil@happylivingdev.com) <naftalil@happylivingdev.com>
Subject: Former Shell C231067 - Soil Reuse Request

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Nigel,

Please find attached a soil reuse request for the Former Shell site for your review and approval. About 80 cubic yards of on-site soil/fill was segregated, stockpiled, and sampled for lab analysis of Part 375 parameters. The material meets Unrestricted Use SCOs with the exception of acetone, which we consider a laboratory artifact. If you could please issue your approval before the end of the week, we would greatly appreciate it.

Best,
Greg

Gregory C. Wyka, P.G., LEED AP ND

Project Geologist

Direct: 212.479.5476

Mobile: 347.267.2679

[File Sharing Link](#)

LANGAN

Phone: 212.479.5400 Fax: 212.479.5444

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360 West 31st Street, 8th Floor

New York, NY 10001-2727

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VIRGINIA WEST VIRGINIA OHIO FLORIDA TEXAS ARIZONA CALIFORNIA
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Langan's goal is to be SAFE (Stay Accident Free Everyday)

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

About 15 cubic yards of soil and fill material were excavated by Moncon, Inc. on 9/7/2018 and placed in a stockpile on poly sheeting for reuse sampling. Langan collected one grab sample and one composite sample for lab analysis consistent with NYSDEC DER-10 Appendix 5. The contractor will use this soil/fill material as backfill for the voids behind lagging walls inside of the property boundary during SOE construction. See attached figure for proposed placement areas. The proposed reuse material will be field screened, tracked and documented by Langan field staff under the supervision of the PE.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

See attached analytical data table with comparisons to the Part 375 Restricted Use Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Excavated on-site soil/fill material meeting reuse criteria specified in NYSDEC-approved RAWP

Location where fill was obtained:

300 West 122nd Street (Former Shell BCP Site No. C231067)

Identification of any state or local approvals as a fill source:

N/A

If no approvals are available, provide a brief history of the use of the property that is the fill source:

See RIR and RAWP

Provide a list of supporting documentation included with this request:

See attached Table 1, Figure 1, Alpha Lab Report L1835505, and Daily Field Report (DFR) for 9/7/2018.

The information provided on this form is accurate and complete.



Signature

8/16/2019

Date

Gregory C. Wyka

Print Name

Langan

Firm

Table 1
Soil Analytical Results Summary
Materials Reuse - Lagging Reuse Material

300 West 122nd Street
New York, New York
Langan Project No. 170500202
BCP Project No. C231067

Sample ID Laboratory Sample ID Sample Date Sample Depth Interval (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RUR SCOs	REUSE02_COMP01 L1835505-01 9/7/2018	REUSE02_GRAB01 L1835505-02 9/7/2018
Volatile Organic Compounds (VOCs) (mg/kg)				
Tert-Butyl Alcohol	~	~	NA	0.032
Semivolatile Organic Compounds (SVOCs) (mg/kg)				
2-Methylnaphthalene	~	~	0.03 J	NA
Acenaphthene	20	100	0.022 J	NA
Acenaphthylene	100	100	0.13 J	NA
Anthracene	100	100	0.13	NA
Benzo(a)anthracene	1	1	0.45	NA
Benzo(a)pyrene	1	1	0.42	NA
Benzo(b)fluoranthene	1	1	0.58	NA
Benzo(ghi)perylene	100	100	0.31	NA
Benzo(k)fluoranthene	0.8	1	0.2	NA
Carbazole	~	~	0.039 J	NA
Chrysene	1	1	0.44	NA
Dibenzo(a,h)anthracene	0.33	0.33	0.066 J	NA
Dibenzofuran	7	14	0.016 J	NA
Fluoranthene	100	100	0.77	NA
Fluorene	30	100	0.031 J	NA
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.29	NA
Naphthalene	12	100	0.037 J	NA
Phenanthrene	100	100	0.37	NA
Pyrene	100	100	0.71	NA
(mg/kg)				
Aroclor 1254	0.1	1	0.013 J	NA
Aroclor 1260	0.1	1	0.0139 J	NA
PCBs, Total	0.1	1	0.0269 J	NA
Pesticides (mg/kg)				
4,4'-DDD	0.0033	2.6	0.000816 J	NA
4,4'-DDE	0.0033	1.8	0.0116	NA
4,4'-DDT	0.0033	1.7	0.0216	NA
cis-Chlordane	0.094	0.91	0.0066 P	NA
Dieldrin	0.005	0.039	0.00229	NA
trans-Chlordane	~	~	0.00777 PI	NA
Herbicides (mg/kg)				
Total Herbicides	~	~	ND	NA
Inorganics (mg/kg)				
Aluminum, Total	~	~	3710	NA
Antimony, Total	~	~	0.658 J	NA
Arsenic, Total	13	16	2.6	NA
Barium, Total	350	350	65.9	NA
Beryllium, Total	7.2	14	0.238 J	NA
Cadmium, Total	2.5	2.5	0.317 J	NA
Calcium, Total	~	~	11300	NA
Chromium, Total	~	~	9.27	NA
Chromium, Trivalent	30	36	9.3	NA
Cobalt, Total	~	~	4.02	NA
Copper, Total	50	270	19.1	NA
Iron, Total	~	~	8000	NA
Lead, Total	63	400	160	NA
Magnesium, Total	~	~	2040	NA
Manganese, Total	1600	2000	318	NA
Mercury, Total	0.18	0.81	0.164	NA
Nickel, Total	30	140	10.6	NA
Potassium, Total	~	~	650	NA
Selenium, Total	3.9	36	0.555 J	NA
Sodium, Total	~	~	133 J	NA
Vanadium, Total	~	~	21.2	NA
Zinc, Total	109	2200	78	NA

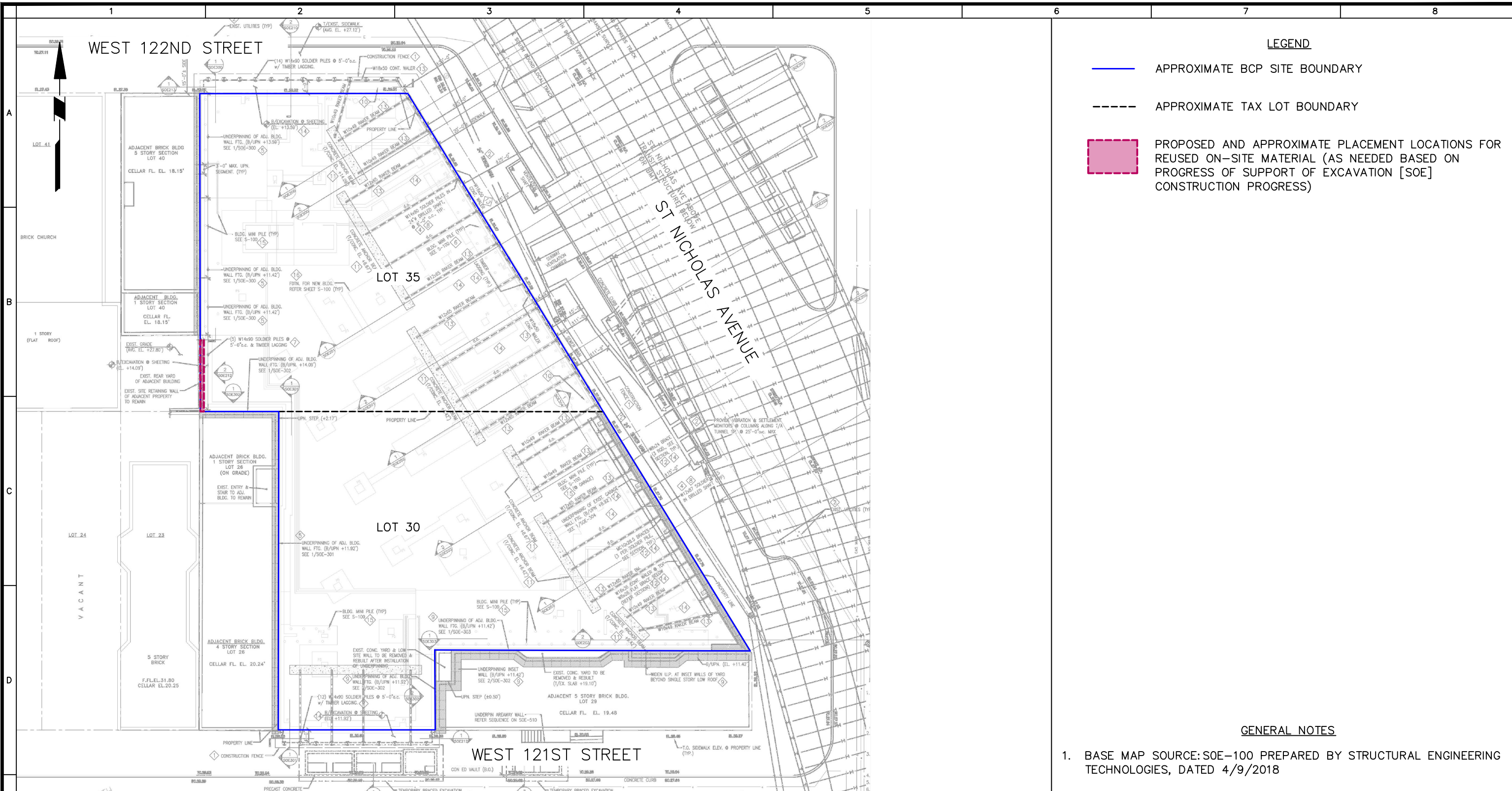
- Notes:**
- Grab and composite soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UU SCOs) and Restricted Use - Residential (RUR) SCOs.
 - Only detected analytes are shown
 - No analytes were greater than the NYSDEC Part 375 RUR SCOs.
 - mg/kg = milligram per kilogram
 - ~ = Criterion does not exist
 - NA = Not Analyzed
 - ND = Not Detected
 - Analytes that were greater than the NYSDEC Part 375 UU SCOs are bolded.

Qualifiers:

J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.

I = The lower value for the two columns has been reported due to obvious interference.

P = The RPD between the results for the two columns exceeds the method-specified criteria.



- LEGEND**
- APPROXIMATE BCP SITE BOUNDARY
 - - - - APPROXIMATE TAX LOT BOUNDARY
 - PROPOSED AND APPROXIMATE PLACEMENT LOCATIONS FOR REUSED ON-SITE MATERIAL (AS NEEDED BASED ON PROGRESS OF SUPPORT OF EXCAVATION [SOE] CONSTRUCTION PROGRESS)

GENERAL NOTES

1. BASE MAP SOURCE: SOE-100 PREPARED BY STRUCTURAL ENGINEERING TECHNOLOGIES, DATED 4/9/2018

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.



LANGAN
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project
300 WEST 122ND STREET
BLOCK No. 1948, LOT Nos. 30 & 35 MANHATTAN NEW YORK

Figure Title
CONSTRUCTION SITE PLAN
PROPOSED MATERIALS REUSE

Project No. 170500201	Figure No. 1
Date 8/12/2019	
Scale 1" = 30'	
Drawn By JL	Checked By GCW
Submission Date	Sheet 1 of 1

DAILY FIELD REPORT

Prepared By: LANGAN

WEATHER	Snow		Rain	X	Overcast		Partly Cloudy		Sunny	
TEMP.	< 32		32-50		50-70		70-85	X	>85	

BCP Project No:	C231067	E-Number:	E-120 / 14EHAZ282M	Date:	September 07, 2018
Project Name:	300 West 122 nd Street				

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.	Langan Field Engineer: Daniel Eida	
Construction Manager: Happy Living Development General Contractor: Happy Living Development Support of Excavation Contractor: Moncon Inc.		
Work Activities Performed (Since Last Report): • Moncon Inc. (Moncon) completed installation of production pile PP25 located in Grid 4 about about 1 foot north of the southeast corner of the site. The drilling water runoff and drilling spoils were screened for odors, staining and organic vapors using a photoionization detector (PID). No field indicators of chemical or petroleum releases were observed in the drilling water runoff or drilling spoils. PID readings were recorded at 0.0 parts per million (ppm). The water was temporarily held in a retention pond lined with polyethylene sheeting located in Grids 2 and 4, then pumped into a 21,000-gallon frac tank for off-site disposal by PAL Environmental Services Corp. located in Long Island City, NY (PAL). • Moncon grouted production piles PP25, and PP13 located in Grid 4 about 1 and 86 feet north of the southeast corner of the site, respectively. The grout water runoff was screened for odors, staining and organic vapors using a PID. No field indicators of chemical or petroleum releases were observed in the grout water runoff. PID readings were recorded at 0.0 ppm. The water was also temporarily held in a retention pond lined with polyethylene sheeting located in Grids 2 and 4, then pumped into a 21,000-gallon frac tank for off-site disposal by PAL. • Moncon excavated about 15 cubic yards of historic fill from Grid 4 (0-5) to install a trench for drilling water runoff. The material was screened for odors, staining and organic vapors using a PID. No field indicators of chemical or petroleum releases were observed in the excavated material. The material was temporarily placed near its original location. The trench was lined with polyethylene sheeting. • Moncon pumped 6,271 gallons of drilling water runoff into one vacuum truck for off-site disposal by PAL. • Community Air Monitoring Plan (CAMP) was not implemented due to precipitation.		
Samples Collected (Since Last Report : Langan collected one grab and one composite sample from backfilled lagging soil between soldier piles 49 and 53. Soil samples REUSE02_GRAB01 and REUSE02_COMP01, were submitted on ice in a cooler to Alpha Analytical Laboratories, Inc., of Westborough, Massachusetts for analysis of New York State Department of Environmental Conservation (NYSDEC) Part 375 volatile organic compounds		

(VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (including hexavalent/trivalent chromium), and cyanide.

Air Monitoring (Since Last Report):

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)		
Daily background	N/A		Daily Background	N/A	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	N/A	N/A	Daily Time Weighted Average	N/A	N/A
Maximum 15-min Average	N/A	N/A	Maximum 15-min Average	N/A	N/A
Minimum 1-min Instant Reading	N/A	N/A	Minimum 1-min Instant Reading	N/A	N/A
Maximum 1-min Instant Reading	N/A	N/A	Maximum 1-min Instant Reading	N/A	N/A

mg/m³ = micrograms per cubic meter. ppm= parts per million.

Problems Encountered: None.

Planned Activities:

- Moncon will continue drilling production piles in Grids 2 and 4 along the eastern site boundary.
- Moncon will grout previously drilled production piles in Grids 2 and 4 along the eastern site boundary.

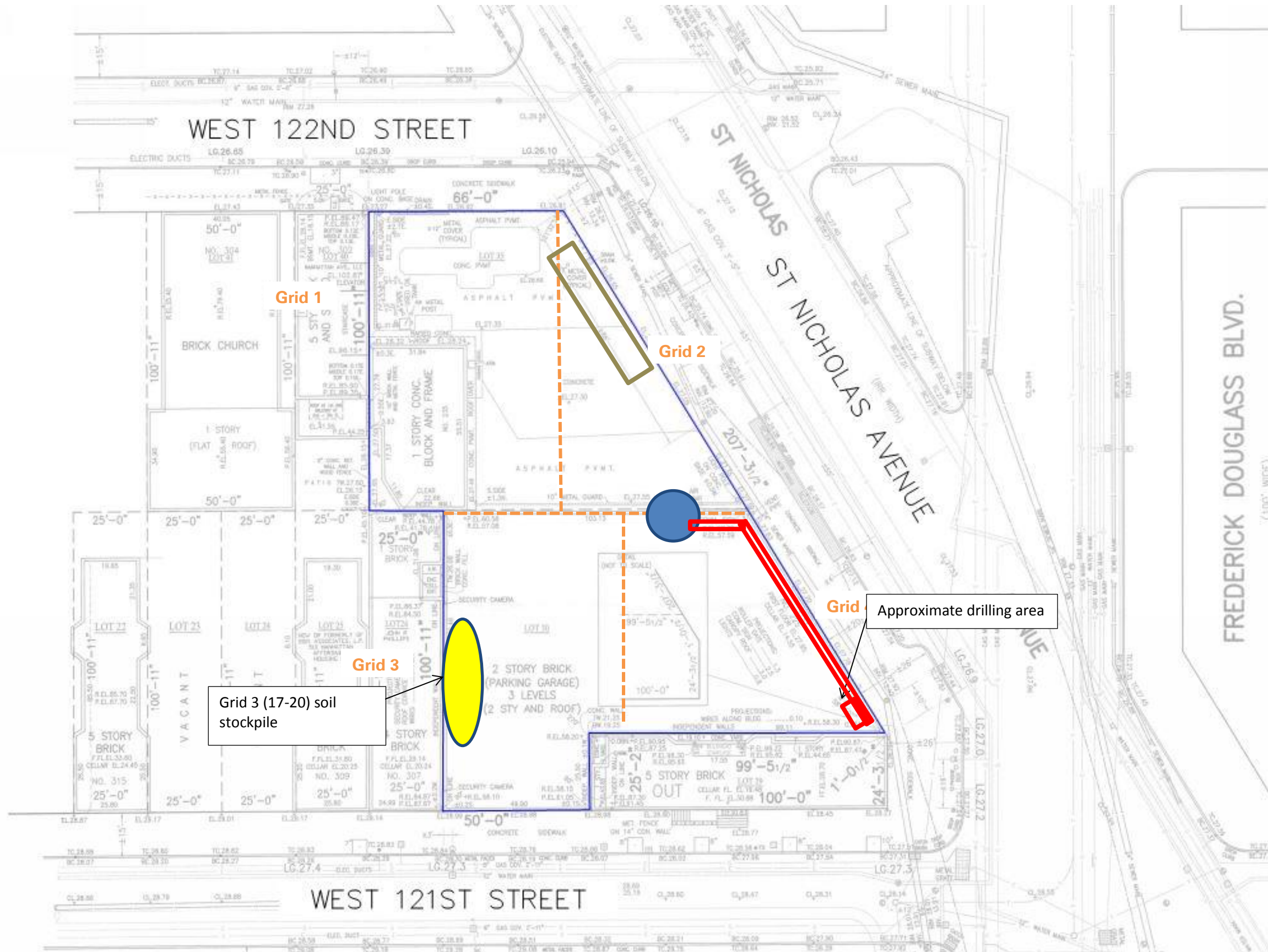
CONSTRUCTION/FOUNDATION - EXPORT/IMPORT SUMMARIES

MATERIALS EXPORT SUMMARY 1						
Facility Name	<i>Bayshore Soil Management, LLC</i>		<i>Resource Management Technologies, LLC</i>		<i>Aarco Environmental Services Corp.</i>	
Location	<i>Keasbey, NJ</i>		<i>North Bergen, NJ</i>		<i>Lindenhurst, NY</i>	
Type of Waste	<i>Non-Hazardous Fill Material</i>		<i>C&D Material</i>		<i>Non-hazardous Purge Water</i>	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Drums	Approx. Volume (gals)
	-	-	-	-	-	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (gals)
	267	5340	26	540	1	55

MATERIALS EXPORT SUMMARY 2						
Facility Name	<i>PAL Environmental Services, Corp.</i>		<i>ABC Tank Repair and Lining, Inc.</i>		<i>ABC Tank Repair and Lining, Inc.</i>	
Location	<i>Long Island City, NY</i>		<i>Brooklyn, NY</i>		<i>Brooklyn, NY</i>	
Type of Waste	<i>Non-hazardous Purge Groundwater</i>		<i>Motor Oil</i>		<i>Tank Scrap Metal</i>	
Today	Number of Vac Trucks	Approx. Volume (gals)	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Approx. Volume (gals)
	1	6,271	-	-	-	-
Total	Number of Loads	Number of Tanks	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Approx. Volume (gals)
	3	15,945	1600	7	1600	55

MATERIALS IMPORT SUMMARY								
Facility Name								
Location								
Type of Material								
Today	Number of Loads	Volume (CY)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	-	-	-	-	-	-	-	-
Total	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	-	-	-	-	-	-	-	-

SITE PLAN



LEGEND

	Approx. site boundary
	Approx. excavation/drilling areas
	Approx. grading area
	Approx. soil disposal grid boundary established by Clean Earth
	Upwind CAMP station
	Downwind CAMP station
	Approx. location of stockpile of excavated fill material from Grid 1 (10-16 bgs)
	Approx. location of temporary retention pond
	Approx. location of C&D stockpile
	Approx. former stockpile location
	Approx. location of RCA stockpile
	Approx. location of non-impacted soil cuttings
	Approx. location of stockpile of excavated fill material
	Approx. location of stockpile of excavated fill material from Grid 3
	Approx. UST location
	Approx. location of frac tank

Photo Log

Photo 1:

View of Moncon drilling PP25 located in Grid 4, facing south.



Photo 2:

View of Moncon excavating trench in Grid 4, facing west.



Photo 3:

View of Moncon laying polyethylene sheeting in the trench, facing northwest.



Photo 4:

View of PAL pumping drilling water runoff from frac tank into vacuum truck for off-site disposal, facing west.





ANALYTICAL REPORT

Lab Number:	L1835505
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	170500202
Project Number:	170500202
Report Date:	09/14/18

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-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: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1835505-01	REUSE02_COMP01	SOIL	300 WEST 122ND ST.	09/07/18 14:00	09/07/18
L1835505-02	REUSE02_GRAB01	SOIL	300 WEST 122ND ST.	09/07/18 14:00	09/07/18

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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.

Total Metals

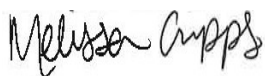
L1835505-01: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1154932-3 LCSD recovery (77%), associated with L1835505-01, 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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 09/14/18

ORGANICS

VOLATILES

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02
 Client ID: REUSE02_GRAB01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 09/13/18 05:12
 Analyst: JC
 Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by 8260/5035 - Westborough Lab						
Methylene chloride	ND		ug/kg	4.4	2.0	1
1,1-Dichloroethane	ND		ug/kg	0.87	0.13	1
Chloroform	ND		ug/kg	1.3	0.12	1
Carbon tetrachloride	ND		ug/kg	0.87	0.20	1
1,2-Dichloropropane	ND		ug/kg	0.87	0.11	1
Dibromochloromethane	ND		ug/kg	0.87	0.12	1
1,1,2-Trichloroethane	ND		ug/kg	0.87	0.23	1
Tetrachloroethene	ND		ug/kg	0.44	0.17	1
Chlorobenzene	ND		ug/kg	0.44	0.11	1
Trichlorofluoromethane	ND		ug/kg	3.5	0.61	1
1,2-Dichloroethane	ND		ug/kg	0.87	0.22	1
1,1,1-Trichloroethane	ND		ug/kg	0.44	0.14	1
Bromodichloromethane	ND		ug/kg	0.44	0.10	1
trans-1,3-Dichloropropene	ND		ug/kg	0.87	0.24	1
cis-1,3-Dichloropropene	ND		ug/kg	0.44	0.14	1
1,3-Dichloropropene, Total	ND		ug/kg	0.44	0.14	1
1,1-Dichloropropene	ND		ug/kg	0.44	0.14	1
Bromoform	ND		ug/kg	3.5	0.22	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.44	0.14	1
Benzene	ND		ug/kg	0.44	0.14	1
Toluene	ND		ug/kg	0.87	0.47	1
Ethylbenzene	ND		ug/kg	0.87	0.12	1
Chloromethane	ND		ug/kg	3.5	0.81	1
Bromomethane	ND		ug/kg	1.7	0.51	1
Vinyl chloride	ND		ug/kg	0.87	0.29	1
Chloroethane	ND		ug/kg	1.7	0.40	1
1,1-Dichloroethene	ND		ug/kg	0.87	0.21	1
trans-1,2-Dichloroethene	ND		ug/kg	1.3	0.12	1

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02
 Client ID: REUSE02_GRAB01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 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	0.44	0.12	1
1,2-Dichlorobenzene	ND		ug/kg	1.7	0.12	1
1,3-Dichlorobenzene	ND		ug/kg	1.7	0.13	1
1,4-Dichlorobenzene	ND		ug/kg	1.7	0.15	1
Methyl tert butyl ether	ND		ug/kg	1.7	0.18	1
p/m-Xylene	ND		ug/kg	1.7	0.49	1
o-Xylene	ND		ug/kg	0.87	0.25	1
Xylenes, Total	ND		ug/kg	0.87	0.25	1
cis-1,2-Dichloroethene	ND		ug/kg	0.87	0.15	1
Dibromomethane	ND		ug/kg	1.7	0.21	1
Styrene	ND		ug/kg	0.87	0.17	1
Dichlorodifluoromethane	ND		ug/kg	8.7	0.80	1
Acetone	ND		ug/kg	8.7	4.2	1
Carbon disulfide	ND		ug/kg	8.7	4.0	1
2-Butanone	ND		ug/kg	8.7	1.9	1
Vinyl acetate	ND		ug/kg	8.7	1.9	1
4-Methyl-2-pentanone	ND		ug/kg	8.7	1.1	1
1,2,3-Trichloropropane	ND		ug/kg	1.7	0.11	1
2-Hexanone	ND		ug/kg	8.7	1.0	1
Bromochloromethane	ND		ug/kg	1.7	0.18	1
2,2-Dichloropropane	ND		ug/kg	1.7	0.18	1
1,2-Dibromoethane	ND		ug/kg	0.87	0.24	1
1,3-Dichloropropane	ND		ug/kg	1.7	0.14	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.44	0.12	1
Bromobenzene	ND		ug/kg	1.7	0.13	1
n-Butylbenzene	ND		ug/kg	0.87	0.14	1
sec-Butylbenzene	ND		ug/kg	0.87	0.13	1
tert-Butylbenzene	ND		ug/kg	1.7	0.10	1
o-Chlorotoluene	ND		ug/kg	1.7	0.17	1
p-Chlorotoluene	ND		ug/kg	1.7	0.09	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.6	0.87	1
Hexachlorobutadiene	ND		ug/kg	3.5	0.15	1
Isopropylbenzene	ND		ug/kg	0.87	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.87	0.10	1
Naphthalene	ND		ug/kg	3.5	0.57	1
Acrylonitrile	ND		ug/kg	3.5	1.0	1
Tert-Butyl Alcohol	32		ug/kg	17	4.5	1

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02
 Client ID: REUSE02_GRAB01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 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	0.87	0.15	1
1,2,3-Trichlorobenzene	ND		ug/kg	1.7	0.28	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.7	0.24	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.7	0.17	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.7	0.29	1
Methyl Acetate	ND		ug/kg	3.5	0.83	1
Acrolein	ND		ug/kg	22	4.9	1
Cyclohexane	ND		ug/kg	8.7	0.48	1
1,4-Dioxane	ND		ug/kg	87	31.	1
Freon-113	ND		ug/kg	3.5	0.60	1
p-Diethylbenzene	ND		ug/kg	1.7	0.15	1
p-Ethyltoluene	ND		ug/kg	1.7	0.34	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	1.7	0.17	1
Ethyl ether	ND		ug/kg	1.7	0.30	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	4.4	1.2	1
Methyl cyclohexane	ND		ug/kg	3.5	0.53	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	110		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	95		70-130

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 09/12/18 20:25
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	100	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 09/12/18 20:25

Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1156524-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
Methylene chloride	88		87		70-130	1		30
1,1-Dichloroethane	88		85		70-130	3		30
Chloroform	88		86		70-130	2		30
Carbon tetrachloride	79		78		70-130	1		30
1,2-Dichloropropane	86		86		70-130	0		30
Dibromochloromethane	80		82		70-130	2		30
1,1,2-Trichloroethane	96		95		70-130	1		30
Tetrachloroethene	89		87		70-130	2		30
Chlorobenzene	88		87		70-130	1		30
Trichlorofluoromethane	118		115		70-139	3		30
1,2-Dichloroethane	83		82		70-130	1		30
1,1,1-Trichloroethane	83		81		70-130	2		30
Bromodichloromethane	80		79		70-130	1		30
trans-1,3-Dichloropropene	90		90		70-130	0		30
cis-1,3-Dichloropropene	81		81		70-130	0		30
1,1-Dichloropropene	89		86		70-130	3		30
Bromoform	80		81		70-130	1		30
1,1,2,2-Tetrachloroethane	99		97		70-130	2		30
Benzene	97		94		70-130	3		30
Toluene	99		98		70-130	1		30
Ethylbenzene	100		98		70-130	2		30
Chloromethane	79		77		52-130	3		30
Bromomethane	117		116		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
Vinyl chloride	104		100		67-130	4		30
Chloroethane	113		110		50-151	3		30
1,1-Dichloroethene	86		84		65-135	2		30
trans-1,2-Dichloroethene	88		85		70-130	3		30
Trichloroethene	85		83		70-130	2		30
1,2-Dichlorobenzene	95		94		70-130	1		30
1,3-Dichlorobenzene	98		97		70-130	1		30
1,4-Dichlorobenzene	97		96		70-130	1		30
Methyl tert butyl ether	81		81		66-130	0		30
p/m-Xylene	94		93		70-130	1		30
o-Xylene	88		88		70-130	0		30
cis-1,2-Dichloroethene	87		85		70-130	2		30
Dibromomethane	85		83		70-130	2		30
Styrene	88		86		70-130	2		30
Dichlorodifluoromethane	82		77		30-146	6		30
Acetone	113		105		54-140	7		30
Carbon disulfide	85		82		59-130	4		30
2-Butanone	71		69	Q	70-130	3		30
Vinyl acetate	74		72		70-130	3		30
4-Methyl-2-pentanone	93		92		70-130	1		30
1,2,3-Trichloropropane	99		100		68-130	1		30
2-Hexanone	83		83		70-130	0		30
Bromochloromethane	82		81		70-130	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
2,2-Dichloropropane	86		83		70-130	4		30
1,2-Dibromoethane	92		93		70-130	1		30
1,3-Dichloropropane	96		97		69-130	1		30
1,1,1,2-Tetrachloroethane	80		80		70-130	0		30
Bromobenzene	93		92		70-130	1		30
n-Butylbenzene	111		109		70-130	2		30
sec-Butylbenzene	106		103		70-130	3		30
tert-Butylbenzene	103		100		70-130	3		30
o-Chlorotoluene	105		101		70-130	4		30
p-Chlorotoluene	102		100		70-130	2		30
1,2-Dibromo-3-chloropropane	87		89		68-130	2		30
Hexachlorobutadiene	96		94		67-130	2		30
Isopropylbenzene	105		102		70-130	3		30
p-Isopropyltoluene	105		102		70-130	3		30
Naphthalene	94		95		70-130	1		30
Acrylonitrile	91		90		70-130	1		30
Tert-Butyl Alcohol	80		82		70-130	2		30
n-Propylbenzene	109		106		70-130	3		30
1,2,3-Trichlorobenzene	91		92		70-130	1		30
1,2,4-Trichlorobenzene	95		95		70-130	0		30
1,3,5-Trimethylbenzene	103		100		70-130	3		30
1,2,4-Trimethylbenzene	103		100		70-130	3		30
Methyl Acetate	82		79		51-146	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 02 Batch: WG1156524-3 WG1156524-4								
Acrolein	86		86		70-130	0		30
Cyclohexane	85		82		59-142	4		30
1,4-Dioxane	96		104		65-136	8		30
Freon-113	86		82		50-139	5		30
p-Diethylbenzene	104		102		70-130	2		30
p-Ethyltoluene	106		103		70-130	3		30
1,2,4,5-Tetramethylbenzene	100		98		70-130	2		30
Ethyl ether	109		110		67-130	1		30
trans-1,4-Dichloro-2-butene	86		92		70-130	7		30
Methyl cyclohexane	92		89		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		99		70-130
Toluene-d8	106		107		70-130
4-Bromofluorobenzene	106		105		70-130
Dibromofluoromethane	95		95		70-130

SEMIVOLATILES

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 09/12/18 04:46
 Analyst: IM
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	22	J	ug/kg	140	18.	1
Benzidine	ND		ug/kg	570	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	23.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	34.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	16.	1
Fluoranthene	770		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	26.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	29.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	25.	1
Hexachlorocyclopentadiene	ND		ug/kg	490	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	22.	1
Naphthalene	37	J	ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	25.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	43.	1

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	58.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	36.	1
Benzo(a)anthracene	450		ug/kg	100	19.	1
Benzo(a)pyrene	420		ug/kg	140	42.	1
Benzo(b)fluoranthene	580		ug/kg	100	29.	1
Benzo(k)fluoranthene	200		ug/kg	100	28.	1
Chrysene	440		ug/kg	100	18.	1
Acenaphthylene	130	J	ug/kg	140	27.	1
Anthracene	130		ug/kg	100	34.	1
Benzo(ghi)perylene	310		ug/kg	140	20.	1
Fluorene	31	J	ug/kg	170	17.	1
Phenanthrene	370		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	66	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	290		ug/kg	140	24.	1
Pyrene	710		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	390	40.	1
4-Chloroaniline	ND		ug/kg	170	31.	1
2-Nitroaniline	ND		ug/kg	170	33.	1
3-Nitroaniline	ND		ug/kg	170	32.	1
4-Nitroaniline	ND		ug/kg	170	71.	1
Dibenzofuran	16	J	ug/kg	170	16.	1
2-Methylnaphthalene	30	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	21.	1
n-Nitrosodimethylamine	ND		ug/kg	340	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	20.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	57.	1
2-Nitrophenol	ND		ug/kg	370	65.	1
4-Nitrophenol	ND		ug/kg	240	70.	1
2,4-Dinitrophenol	ND		ug/kg	830	80.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	83.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	170	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	39	J	ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	60.	1
Benzaldehyde	ND		ug/kg	230	46.	1
Caprolactam	ND		ug/kg	170	52.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	83		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	83		23-120
2-Fluorobiphenyl	85		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	80		18-120

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	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	27.
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	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Tentatively Identified Compounds

No Tentatively Identified Compounds ND ug/kg

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 09/12/18 18:43
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 08:24

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1154975-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	34		25-120
Phenol-d6	38		10-120
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	41		30-120
2,4,6-Tribromophenol	79		10-136
4-Terphenyl-d14	96		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
Acenaphthene	94		90		31-137	4		50
Benzidine	36		34		10-66	6		50
1,2,4-Trichlorobenzene	90		89		38-107	1		50
Hexachlorobenzene	102		96		40-140	6		50
Bis(2-chloroethyl)ether	83		80		40-140	4		50
2-Chloronaphthalene	96		92		40-140	4		50
1,2-Dichlorobenzene	83		84		40-140	1		50
1,3-Dichlorobenzene	82		80		40-140	2		50
1,4-Dichlorobenzene	83		84		28-104	1		50
3,3'-Dichlorobenzidine	91		83		40-140	9		50
2,4-Dinitrotoluene	124		114		40-132	8		50
2,6-Dinitrotoluene	109		105		40-140	4		50
Azobenzene	106		100		40-140	6		50
Fluoranthene	104		98		40-140	6		50
4-Chlorophenyl phenyl ether	99		94		40-140	5		50
4-Bromophenyl phenyl ether	101		97		40-140	4		50
Bis(2-chloroisopropyl)ether	88		86		40-140	2		50
Bis(2-chloroethoxy)methane	85		80		40-117	6		50
Hexachlorobutadiene	103		100		40-140	3		50
Hexachlorocyclopentadiene	98		94		40-140	4		50
Hexachloroethane	89		91		40-140	2		50
Isophorone	89		88		40-140	1		50
Naphthalene	88		85		40-140	3		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
Nitrobenzene	95		94		40-140	1		50
NDPA/DPA	96		91		36-157	5		50
n-Nitrosodi-n-propylamine	90		86		32-121	5		50
Bis(2-ethylhexyl)phthalate	110		99		40-140	11		50
Butyl benzyl phthalate	114		109		40-140	4		50
Di-n-butylphthalate	109		103		40-140	6		50
Di-n-octylphthalate	108		102		40-140	6		50
Diethyl phthalate	110		101		40-140	9		50
Dimethyl phthalate	103		96		40-140	7		50
Benzo(a)anthracene	95		89		40-140	7		50
Benzo(a)pyrene	104		98		40-140	6		50
Benzo(b)fluoranthene	108		93		40-140	15		50
Benzo(k)fluoranthene	97		99		40-140	2		50
Chrysene	96		90		40-140	6		50
Acenaphthylene	97		90		40-140	7		50
Anthracene	100		96		40-140	4		50
Benzo(ghi)perylene	106		100		40-140	6		50
Fluorene	97		92		40-140	5		50
Phenanthrene	95		91		40-140	4		50
Dibenzo(a,h)anthracene	104		97		40-140	7		50
Indeno(1,2,3-cd)pyrene	98		89		40-140	10		50
Pyrene	103		98		35-142	5		50
Biphenyl	99		93		54-104	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
4-Chloroaniline	93		89		40-140	4		50
2-Nitroaniline	105		96		47-134	9		50
3-Nitroaniline	92		88		26-129	4		50
4-Nitroaniline	98		87		41-125	12		50
Dibenzofuran	99		92		40-140	7		50
2-Methylnaphthalene	92		87		40-140	6		50
1,2,4,5-Tetrachlorobenzene	105		102		40-117	3		50
Acetophenone	94		91		14-144	3		50
n-Nitrosodimethylamine	80		80		22-100	0		50
2,4,6-Trichlorophenol	108		99		30-130	9		50
p-Chloro-m-cresol	106	Q	99		26-103	7		50
2-Chlorophenol	94		92		25-102	2		50
2,4-Dichlorophenol	102		98		30-130	4		50
2,4-Dimethylphenol	97		97		30-130	0		50
2-Nitrophenol	103		97		30-130	6		50
4-Nitrophenol	146	Q	131	Q	11-114	11		50
2,4-Dinitrophenol	110		98		4-130	12		50
4,6-Dinitro-o-cresol	109		104		10-130	5		50
Pentachlorophenol	106		96		17-109	10		50
Phenol	80		78		26-90	3		50
2-Methylphenol	93		87		30-130	7		50
3-Methylphenol/4-Methylphenol	90		86		30-130	5		50
2,4,5-Trichlorophenol	109		102		30-130	7		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1154975-2 WG1154975-3								
Benzoic Acid	18		15		10-110	18		50
Benzyl Alcohol	98		95		40-140	3		50
Carbazole	102		96		54-128	6		50
Atrazine	122		115		40-140	6		50
Benzaldehyde	71		71		40-140	0		50
Caprolactam	114		104		15-130	9		50
2,3,4,6-Tetrachlorophenol	112		104		40-140	7		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		88		25-120
Phenol-d6	92		86		10-120
Nitrobenzene-d5	103		97		23-120
2-Fluorobiphenyl	97		89		30-120
2,4,6-Tribromophenol	115		103		10-136
4-Terphenyl-d14	99		92		18-120

PCBS

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8082A
 Analytical Date: 09/10/18 17:39
 Analyst: AWS
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 11:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/10/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.2	2.95	1	A
Aroclor 1221	ND		ug/kg	33.2	3.32	1	A
Aroclor 1232	ND		ug/kg	33.2	7.03	1	A
Aroclor 1242	ND		ug/kg	33.2	4.47	1	A
Aroclor 1248	ND		ug/kg	33.2	4.98	1	A
Aroclor 1254	13.0	J	ug/kg	33.2	3.63	1	B
Aroclor 1260	13.9	J	ug/kg	33.2	6.13	1	B
Aroclor 1262	ND		ug/kg	33.2	4.21	1	A
Aroclor 1268	ND		ug/kg	33.2	3.44	1	A
PCBs, Total	26.9	J	ug/kg	33.2	2.95	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	83		30-150	B

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8082A
 Analytical Date: 09/10/18 02:09
 Analyst: HT

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 11:15
 Cleanup Method: EPA 3665A
 Cleanup Date: 09/09/18
 Cleanup Method: EPA 3660B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1154991-1						
Aroclor 1016	ND		ug/kg	31.7	2.82	A
Aroclor 1221	ND		ug/kg	31.7	3.18	A
Aroclor 1232	ND		ug/kg	31.7	6.72	A
Aroclor 1242	ND		ug/kg	31.7	4.28	A
Aroclor 1248	ND		ug/kg	31.7	4.76	A
Aroclor 1254	ND		ug/kg	31.7	3.47	A
Aroclor 1260	ND		ug/kg	31.7	5.86	A
Aroclor 1262	ND		ug/kg	31.7	4.03	A
Aroclor 1268	ND		ug/kg	31.7	3.29	A
PCBs, Total	ND		ug/kg	31.7	2.82	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	91		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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: WG1154991-2 WG1154991-3									
Aroclor 1016	74		71		40-140	4		50	A
Aroclor 1260	68		66		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		85		30-150	A
Decachlorobiphenyl	78		71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	103		83		30-150	B
Decachlorobiphenyl	103		84		30-150	B

PESTICIDES

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8081B
 Analytical Date: 09/12/18 19:18
 Analyst: JW
 Percent Solids: 96%

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.321	1	A
Lindane	ND		ug/kg	0.683	0.305	1	A
Alpha-BHC	ND		ug/kg	0.683	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.621	1	A
Heptachlor	ND		ug/kg	0.819	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.577	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.922	1	A
Endrin	ND		ug/kg	0.683	0.280	1	A
Endrin aldehyde	ND		ug/kg	2.05	0.717	1	A
Endrin ketone	ND		ug/kg	1.64	0.422	1	A
Dieldrin	2.29		ug/kg	1.02	0.512	1	A
4,4'-DDE	11.6		ug/kg	1.64	0.379	1	A
4,4'-DDD	0.816	J	ug/kg	1.64	0.584	1	B
4,4'-DDT	21.6		ug/kg	3.07	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.387	1	A
Endosulfan II	ND		ug/kg	1.64	0.548	1	A
Endosulfan sulfate	ND		ug/kg	0.683	0.325	1	A
Methoxychlor	ND		ug/kg	3.07	0.956	1	A
Toxaphene	ND		ug/kg	30.7	8.60	1	A
cis-Chlordane	6.60	P	ug/kg	2.05	0.571	1	A
trans-Chlordane	7.77	PI	ug/kg	2.05	0.541	1	A
Chlordane	ND		ug/kg	13.3	5.43	1	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01

Date Collected: 09/07/18 14:00

Client ID: REUSE02_COMP01

Date Received: 09/07/18

Sample Location: 300 WEST 122ND ST.

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	92		30-150	B
Decachlorobiphenyl	102		30-150	B
2,4,5,6-Tetrachloro-m-xylene	91		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01
 Client ID: REUSE02_COMP01
 Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00
 Date Received: 09/07/18
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8151A
 Analytical Date: 09/13/18 22:35
 Analyst: KEG
 Percent Solids: 96%
 Methylation Date: 09/12/18 09:44

Extraction Method: EPA 8151A
 Extraction Date: 09/11/18 09:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column

Chlorinated Herbicides by GC - Westborough Lab

2,4-D	ND		ug/kg	171	10.8	1	A
2,4,5-T	ND		ug/kg	171	5.30	1	A
2,4,5-TP (Silvex)	ND		ug/kg	171	4.55	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	81		30-150	B

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/12/18 18:16
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1154983-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	2.87	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.4	5.07	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 09/12/18 18:16
 Analyst: JW

Extraction Method: EPA 3546
 Extraction Date: 09/09/18 10:22
 Cleanup Method: EPA 3620B
 Cleanup Date: 09/10/18

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1154983-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	91		30-150	A

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8151A
 Analytical Date: 09/12/18 10:48
 Analyst: DGM

Extraction Method: EPA 8151A
 Extraction Date: 09/11/18 09:51

Methylation Date: 09/12/18 08:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1155581-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1154983-2 WG1154983-3									
Delta-BHC	107		106		30-150	1		30	A
Lindane	103		102		30-150	1		30	A
Alpha-BHC	110		109		30-150	1		30	A
Beta-BHC	112		111		30-150	1		30	A
Heptachlor	75		78		30-150	4		30	A
Aldrin	100		100		30-150	0		30	A
Heptachlor epoxide	101		102		30-150	1		30	A
Endrin	113		112		30-150	1		30	A
Endrin aldehyde	95		91		30-150	4		30	A
Endrin ketone	111		110		30-150	1		30	A
Dieldrin	116		116		30-150	0		30	A
4,4'-DDE	112		109		30-150	3		30	A
4,4'-DDD	117		115		30-150	2		30	A
4,4'-DDT	116		117		30-150	1		30	A
Endosulfan I	103		102		30-150	1		30	A
Endosulfan II	110		110		30-150	0		30	A
Endosulfan sulfate	133		131		30-150	2		30	A
Methoxychlor	120		121		30-150	1		30	A
cis-Chlordane	91		90		30-150	1		30	A
trans-Chlordane	106		105		30-150	1		30	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1154983-2 WG1154983-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	96		97		30-150	B
Decachlorobiphenyl	91		95		30-150	B
2,4,5,6-Tetrachloro-m-xylene	95		94		30-150	A
Decachlorobiphenyl	108		91		30-150	A

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1155581-2 WG1155581-3									
2,4-D	117		132		30-150	12		30	A
2,4,5-T	90		102		30-150	13		30	A
2,4,5-TP (Silvex)	110		126		30-150	14		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	89		109		30-150	A
DCAA	90		93		30-150	B

METALS

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01

Date Collected: 09/07/18 14:00

Client ID: REUSE02_COMP01

Date Received: 09/07/18

Sample Location: 300 WEST 122ND ST.

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3710		mg/kg	7.93	2.14	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Antimony, Total	0.658	J	mg/kg	3.96	0.301	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Arsenic, Total	2.60		mg/kg	0.793	0.165	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Barium, Total	65.9		mg/kg	0.793	0.138	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Beryllium, Total	0.238	J	mg/kg	0.396	0.026	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Cadmium, Total	0.317	J	mg/kg	0.793	0.078	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Calcium, Total	11300		mg/kg	7.93	2.78	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Chromium, Total	9.27		mg/kg	0.793	0.076	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Cobalt, Total	4.02		mg/kg	1.59	0.132	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Copper, Total	19.1		mg/kg	0.793	0.205	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Iron, Total	8000		mg/kg	3.96	0.716	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Lead, Total	160		mg/kg	3.96	0.212	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Magnesium, Total	2040		mg/kg	7.93	1.22	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Manganese, Total	318		mg/kg	0.793	0.126	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Mercury, Total	0.164		mg/kg	0.066	0.014	1	09/13/18 03:30	09/13/18 15:09	EPA 7471B	1,7471B	MG
Nickel, Total	10.6		mg/kg	1.98	0.192	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Potassium, Total	650		mg/kg	198	11.4	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Selenium, Total	0.555	J	mg/kg	1.59	0.205	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.793	0.224	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Sodium, Total	133	J	mg/kg	159	2.50	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.59	0.250	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Vanadium, Total	21.2		mg/kg	0.793	0.161	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
Zinc, Total	78.0		mg/kg	3.96	0.232	2	09/13/18 13:55	09/14/18 00:29	EPA 3050B	1,6010D	AB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	9.3		mg/kg	0.83	0.83	1		09/14/18 00:29	NA	107,-	



Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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 Batch: WG1156309-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	09/13/18 03:30	09/13/18 11:57	1,7471B	MG

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 Batch: WG1156575-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Iron, Total	0.544	J	mg/kg	2.00	0.361	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/13/18 13:55	09/13/18 22:19	1,6010D	AB

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 170500202**Project Number:** 170500202**Lab Number:** L1835505**Report Date:** 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1156309-2 SRM Lot Number: D102-540								
Mercury, Total	114		-		65-134	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1156575-2 SRM Lot Number: D102-540					
Aluminum, Total	61	-	49-150	-	
Antimony, Total	153	-	1-199	-	
Arsenic, Total	89	-	83-117	-	
Barium, Total	83	-	83-118	-	
Beryllium, Total	86	-	83-116	-	
Cadmium, Total	87	-	83-118	-	
Calcium, Total	86	-	82-118	-	
Chromium, Total	83	-	83-117	-	
Cobalt, Total	84	-	84-116	-	
Copper, Total	86	-	84-116	-	
Iron, Total	77	-	61-139	-	
Lead, Total	84	-	82-118	-	
Magnesium, Total	81	-	76-124	-	
Manganese, Total	82	-	82-118	-	
Nickel, Total	85	-	83-117	-	
Potassium, Total	75	-	70-130	-	
Selenium, Total	90	-	79-121	-	
Silver, Total	88	-	80-120	-	
Sodium, Total	90	-	74-126	-	
Thallium, Total	88	-	81-119	-	
Vanadium, Total	84	-	80-120	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 170500202**Project Number:** 170500202**Lab Number:** L1835505**Report Date:** 09/14/18

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1156575-2 SRM Lot Number: D102-540					
Zinc, Total	84	-	81-118	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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 QC Batch ID: WG1156309-3 WG1156309-4 QC Sample: L1835554-02 Client ID: MS Sample												
Mercury, Total	0.095J	0.357	0.572	160	Q	0.512	143	Q	80-120	11		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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 QC Batch ID: WG1156575-3 QC Sample: L1831207-26 Client ID: MS Sample									
Aluminum, Total	6420	178	6500	45	Q	-	75-125	-	20
Antimony, Total	0.669J	44.6	40.1	90		-	75-125	-	20
Arsenic, Total	4.41	10.7	13.1	81		-	75-125	-	20
Barium, Total	31.2	178	178	82		-	75-125	-	20
Beryllium, Total	0.370	4.46	4.18	86		-	75-125	-	20
Cadmium, Total	0.185J	4.54	4.35	96		-	75-125	-	20
Calcium, Total	1010	891	1540	59	Q	-	75-125	-	20
Chromium, Total	4.87	17.8	19.6	83		-	75-125	-	20
Cobalt, Total	3.12	44.6	40.1	83		-	75-125	-	20
Copper, Total	22.4	22.3	29.1	30	Q	-	75-125	-	20
Iron, Total	7490	89.1	6020	0	Q	-	75-125	-	20
Lead, Total	63.6	45.4	76.4	28	Q	-	75-125	-	20
Magnesium, Total	559.	891	1220	74	Q	-	75-125	-	20
Manganese, Total	102.	44.6	95.8	0	Q	-	75-125	-	20
Nickel, Total	3.96	44.6	40.8	83		-	75-125	-	20
Potassium, Total	444.	891	1220	87		-	75-125	-	20
Selenium, Total	0.443J	10.7	10.2	95		-	75-125	-	20
Silver, Total	ND	26.7	25.7	96		-	75-125	-	20
Sodium, Total	27.8J	891	840	94		-	75-125	-	20
Thallium, Total	ND	10.7	8.71	81		-	75-125	-	20
Vanadium, Total	10.2	44.6	47.7	84		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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 QC Batch ID: WG1156575-3 QC Sample: L1831207-26 Client ID: MS Sample									
Zinc, Total	43.8	44.6	68.0	54	Q	-	-	75-125	- 20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1156575-4 QC Sample: L1831207-26 Client ID: DUP Sample						
Lead, Total	63.6	249	mg/kg	119	Q	20

INORGANICS & MISCELLANEOUS

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-01

Date Collected: 09/07/18 14:00

Client ID: REUSE02_COMP01

Date Received: 09/07/18

Sample Location: 300 WEST 122ND ST.

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	96.1		%	0.100	NA	1	-	09/11/18 14:55	121,2540G	AM
Cyanide, Total	ND		mg/kg	1.0	0.21	1	09/08/18 16:54	09/10/18 10:19	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.832	0.166	1	09/11/18 19:15	09/13/18 10:43	1,7196A	NH



Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

SAMPLE RESULTS

Lab ID: L1835505-02

Client ID: REUSE02_GRAB01

Sample Location: 300 WEST 122ND ST.

Date Collected: 09/07/18 14:00

Date Received: 09/07/18

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	82.3		%	0.100	NA	1	-	09/11/18 14:55	121,2540G	AM



Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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 Batch: WG1154932-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	09/08/18 16:54	09/10/18 10:02	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1155859-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	09/11/18 19:15	09/13/18 10:43	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1154932-2 WG1154932-3								
Cyanide, Total	84		77	Q	80-120	3		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1155859-2								
Chromium, Hexavalent	82		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 170500202

Lab Number: L1835505

Project Number: 170500202

Report Date: 09/14/18

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 QC Batch ID: WG1154932-4 WG1154932-5 QC Sample: L1835491-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.3	93		9.0	91		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1155859-4 QC Sample: L1835505-01 Client ID: REUSE02_COMP01												
Chromium, Hexavalent	ND	1230	1300	106		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 170500202

Project Number: 170500202

Lab Number: L1835505

Report Date: 09/14/18

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1155706-1 QC Sample: L1835738-01 Client ID: DUP Sample						
Solids, Total	79.8	85.5	%	7		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1155859-6 QC Sample: L1835505-01 Client ID: REUSE02_COMP01						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 170500202
Project Number: 170500202

Serial_No: 09141815:09
Lab Number: L1835505
Report Date: 09/14/18

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(*)
L1835505-01A	Glass 500ml/16oz unpreserved	A	N/A	N/A	2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1835505-01B	Glass 120ml/4oz unpreserved	A	N/A	N/A	2.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TRICR-CALC(30),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1835505-01D	Metals Only-Glass 60mL/2oz unpreserved	A	N/A	N/A	2.5	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)
L1835505-02A	Vial MeOH preserved	A	N/A	N/A	2.5	Y	Absent		NYTCL-8260HLW(14)
L1835505-02B	Vial water preserved	A	N/A	N/A	2.5	Y	Absent	08-SEP-18 16:42	NYTCL-8260HLW(14)
L1835505-02C	Vial water preserved	A	N/A	N/A	2.5	Y	Absent	08-SEP-18 16:42	NYTCL-8260HLW(14)
L1835505-02D	Plastic 2oz unpreserved for TS	A	N/A	N/A	2.5	Y	Absent		TS(7)

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
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.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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 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.

Project Name: 170500202
Project Number: 170500202

Lab Number: L1835505
Report Date: 09/14/18

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.

From: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Sent: Monday, August 19, 2019 12:12 PM
To: Julia Leung
Cc: Ashley Stappenbeck; Greg Wyka
Subject: RE: 300 West 122nd Street - Soil Reuse No 6

Julia: The Department has reviewed the request dated 8/16/19 to reuse 15 cubic yards of fill material. Based on the information provided, the request is hereby approved.

The proposed fill material meets the **Residential soil cleanup objectives (SCOs) (Appendix 5 of DER-10)**.

Nigel N. Crawford, P.E.

Environmental Engineer 2,
Division of Environmental Remediation

New York State Department of Environmental Conservation

NYSDEC Region 2
47-40 21st Street, LIC New York 11101
P: (718) 482-7778 | F: (718) 482-6358
nigel.crawford@dec.ny.gov
www.dec.ny.gov

From: Julia Leung <JLeung@Langan.com>
Sent: Friday, August 16, 2019 3:39 PM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Cc: Ashley Stappenbeck <astappenbeck@langan.com>; Greg Wyka <gwyka@langan.com>
Subject: 300 West 122nd Street - Soil Reuse No 6

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Nigel,

Please see attached soil reuse request. The soil reused to backfill behind the lagging meets Track 2 Residential SCOs. Tying this up now to lesson your FER review load in October. Please let us know if you have any questions. Thanks!

Have a good weekend,

Julia Leung
Project Engineer
Direct: 212.479.5452
Mobile: 917.892.3222
[File Sharing Link](#)

LANGAN

Phone: 212.479.5400 Fax: 212.479.5444

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A Carbon-Neutral Firm | Langan's goal is to be SAFE (Stay Accident Free Everyday)

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

About 40 cubic yards of soil was excavated by Rise Development on 4/5/2019 and placed in a stockpile on poly sheeting for reuse sampling. Langan collected one grab sample and one composite sample for lab analysis consistent with NYSDEC CP-51 Table 4. The contractor may use this material as backfill in the southwestern portion of the site to raise the grade to the required elevation for an elevator pit. See attached figure for proposed placement areas. The proposed reuse material will be field screened, tracked and documented by Langan field staff under the supervision of the PE.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

See attached analytical data table with comparisons to the Part 375 Unrestricted Use SCOs. No analytes exceeded the Unrestricted Use SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Excavated on-site soil meeting reuse criteria specified in NYSDEC-approved RAWP

Location where fill was obtained:

300 West 122nd Street (Former Shell BCP Site No. C231067)

Identification of any state or local approvals as a fill source:

N/A

If no approvals are available, provide a brief history of the use of the property that is the fill source:

See RIR and RAWP

Provide a list of supporting documentation included with this request:

See attached Table 1, Figure 1, Alpha Lab Report L1913801, and Daily Field Report (DFR) for 4/5/2019.

The information provided on this form is accurate and complete.



Signature

4/9/2019

Date

Gregory C. Wyka

Print Name

Langan

Firm

Table 1
Soil Analytical Results Summary
Materials Reuse - Grid 3 Stockpile

300 West 122nd Street
New York, New York
Langan Project No. 170500201
BCP Project No. C231067

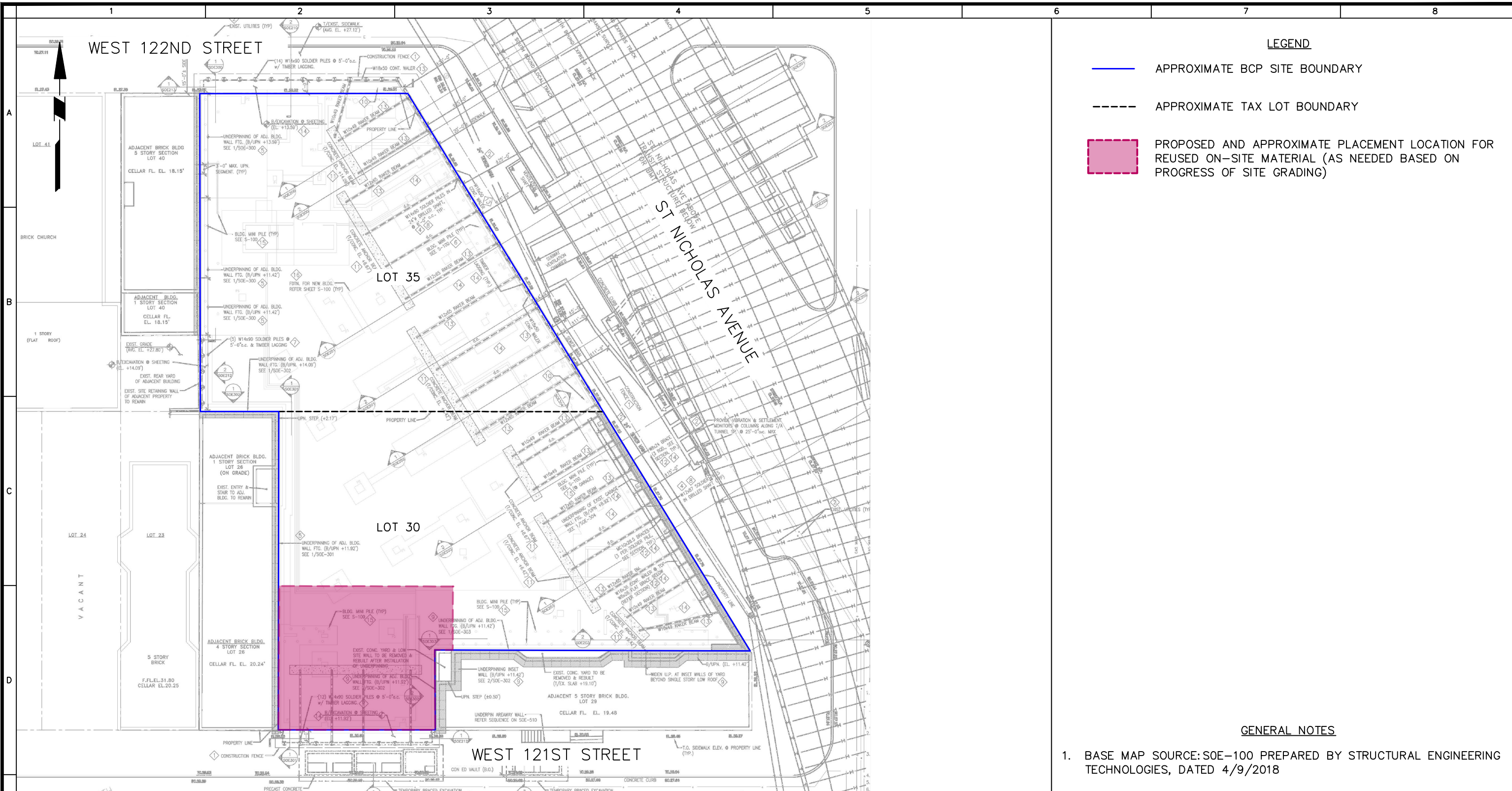
Sample ID		REUSE03_GRAB01	REUSE03_COMP01
Laboratory Sample ID	NYSDEC UU SCOs	L1913801-01	L1913801-02
Sample Date		4/5/2019	4/5/2019
Sample Depth Interval (feet bgs)		16-20	16-20
Volatile Organic Compounds (VOCs) (mg/kg)			
Tetrachloroethene	1.3	0.0003 J	NA
Semivolatile Organic Compounds (SVOCs) (mg/kg)			
Benzo(a)anthracene	1	NA	0.076 J
Benzo(a)pyrene	1	NA	0.068 J
Benzo(b)fluoranthene	1	NA	0.084 J
Benzo(ghi)perylene	100	NA	0.045 J
Benzo(k)fluoranthene	0.8	NA	0.035 J
Chrysene	1	NA	0.067 J
Fluoranthene	100	NA	0.13
Indeno(1,2,3-cd)pyrene	0.5	NA	0.05 J
Phenanthrene	100	NA	0.067 J
Pyrene	100	NA	0.12
Polychlorinated Biphenyls (PCBs) (mg/kg)			
PCBs, Total	0.1	NA	ND
Pesticides (mg/kg)			
Total Herbicides	~	NA	ND
Herbicides (mg/kg)			
Total Herbicides	~	NA	ND
Inorganics (mg/kg)			
Aluminum, Total	~	NA	2260
Arsenic, Total	13	NA	0.967
Barium, Total	350	NA	31
Beryllium, Total	7.2	NA	0.125 J
Cadmium, Total	2.5	NA	0.108 J
Calcium, Total	~	NA	4020
Chromium, Hexavalent	1	NA	0.171 J
Chromium, Total	~	NA	5.71
Chromium, Trivalent	30	NA	5.5 J
Cobalt, Total	~	NA	3.12
Copper, Total	50	NA	10.5
Iron, Total	~	NA	5490
Lead, Total	63	NA	52.6
Magnesium, Total	~	NA	1490
Manganese, Total	1600	NA	262
Mercury, Total	0.18	NA	0.032 J
Nickel, Total	30	NA	8.04
Potassium, Total	~	NA	502
Sodium, Total	~	NA	90.4 J
Vanadium, Total	~	NA	7.68
Zinc, Total	109	NA	22.9

Notes:

1. Grab and composite soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Unrestricted Use Soil Cleanup Objectives (UU SCOs).
2. Only detected analytes are shown in table
2. Analytes with concentrations greater than the NYSDEC UU SCOs are shaded and bold.
3. mg/kg = milligram per kilogram
4. ~ = Criterion does not exist
5. NA = Not Analyzed
6. ND = Not Detected

Qualifiers:

J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.



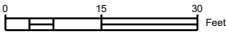
LEGEND

- APPROXIMATE BCP SITE BOUNDARY
- APPROXIMATE TAX LOT BOUNDARY
- PROPOSED AND APPROXIMATE PLACEMENT LOCATION FOR REUSED ON-SITE MATERIAL (AS NEEDED BASED ON PROGRESS OF SITE GRADING)

GENERAL NOTES

- BASE MAP SOURCE: SOE-100 PREPARED BY STRUCTURAL ENGINEERING TECHNOLOGIES, DATED 4/9/2018

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.



LANGAN

21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

300 WEST 122ND STREET

**BLOCK No. 1948, LOT Nos. 30 & 35
MANHATTAN**

NEW YORK

NEW YORK

Figure Title

**CONSTRUCTION
SITE PLAN**

**PROPOSED
MATERIALS REUSE**

Project No.
170500201

Date
4/9/2019

Scale
1" = 30'

Drawn By
JL

Checked By
GCW

Submission Date

Figure No.

1

Sheet 1 of 1

DAILY FIELD REPORT

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	X
TEMP.	< 32		32-50	X	50-70		70-85		>85	

BCP Project No:	C231067	E-Number:	E-120 / 14EHAZ282M	Date:	April 5, 2019
Project Name:	300 West 122 nd Street				

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.	Langan Field Engineer: Ashley Stappenbeck																																										
Construction Manager: Happy Living Development General Contractor: Happy Living Development Foundation Contractor: Rise Development																																											
Work Activities Performed (Since Last Report): - Rise Development (Rise) excavated about 100 cubic yards of soil from the southern portion of Grid 3 (15-20). The material was screened for odors, staining and organic vapors using a photoionization detector (PID). Excavated soil did not exhibit evidence of petroleum impacts (i.e., petroleum-like odor, staining, and elevated PID readings above background). About 60 cubic yards of historic fill was stockpiled for future off-site disposal. About 40 cubic yards of native soil was stockpiled on polyethylene sheeting. Langan collected one grab and one composite sample from the stockpile for laboratory analysis of soil reuse parameters, the details of which are provided below. - Community Air Monitoring Plan (CAMP) was implemented at upwind (northwest) and downwind locations (southeast). Continuous monitoring was performed during construction activity. Organic vapor and particulate action levels were not exceeded during the monitoring period at the downwind CAMP station.																																											
Samples Collected (Since Last Report): Langan collected one grab and one composite sample from a stockpile of Grid 3 (16-20) soil. Soil samples REUSE03_GRAB01 and REUSE03_COMP01 were submitted on ice in a cooler to Alpha Analytical Laboratories, Inc., of Westborough, Massachusetts for analysis of New York State Department of Environmental Conservation (NYSDEC) Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (including hexavalent/trivalent chromium), and cyanide.																																											
Air Monitoring (Since Last Report): <table border="1"><thead><tr><th colspan="3">Particulate Monitoring (mg/m³)</th><th colspan="3">Organic Vapor Monitoring (ppm)</th></tr><tr><th>Daily background</th><th colspan="2">0.000</th><th>Daily Background</th><th colspan="2">0.0</th></tr><tr><th>Averaging Period</th><th>Upwind</th><th>Downwind</th><th>Averaging Period</th><th>Upwind</th><th>Downwind</th></tr></thead><tbody><tr><td>Daily Time Weighted Average</td><td>0.009</td><td>0.013</td><td>Daily Time Weighted Average</td><td>0.0</td><td>0.4</td></tr><tr><td>Maximum 15-min Average</td><td>0.010</td><td>0.019</td><td>Maximum 15-min Average</td><td>0.0</td><td>1.3</td></tr><tr><td>Minimum 1-min Instant Reading</td><td>0.007</td><td>0.000</td><td>Minimum 1-min Instant Reading</td><td>0.0</td><td>0.0</td></tr><tr><td>Maximum 1-min Instant Reading</td><td>0.014</td><td>0.000</td><td>Maximum 1-min Instant Reading</td><td>0.0</td><td>1.4</td></tr></tbody></table> mg/m³ = micrograms per cubic meter. ppm = parts per million.		Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)			Daily background	0.000		Daily Background	0.0		Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind	Daily Time Weighted Average	0.009	0.013	Daily Time Weighted Average	0.0	0.4	Maximum 15-min Average	0.010	0.019	Maximum 15-min Average	0.0	1.3	Minimum 1-min Instant Reading	0.007	0.000	Minimum 1-min Instant Reading	0.0	0.0	Maximum 1-min Instant Reading	0.014	0.000	Maximum 1-min Instant Reading	0.0	1.4
Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)																																								
Daily background	0.000		Daily Background	0.0																																							
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Maximum 1-min Instant Reading	0.014	0.000	Maximum 1-min Instant Reading	0.0	1.4																																						
Problems Encountered: CAMP activities discontinued at approximately 11:22 am because of inclement weather.																																											
Planned Activities: Excavate soil.																																											

CONSTRUCTION/FOUNDATION - EXPORT/IMPORT SUMMARIES

MATERIALS EXPORT SUMMARY 1						
Facility Name	<i>Bayshore Soil Management, LLC</i>		<i>Resource Management Technologies, LLC</i>		<i>Allocco Recycling, Ltd.</i>	
Location	<i>Keasbey, NJ</i>		<i>North Bergen, NJ</i>		<i>Brooklyn, NY</i>	
Type of Waste	<i>Non-Hazardous Fill Material</i>		<i>C&D Material</i>		<i>C&D Material</i>	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)
	-	-	-	-	-	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)
	486	9,720	26	540	11	300

MATERIALS EXPORT SUMMARY 2						
Facility Name	<i>Clean Water of New York</i>		<i>ABC Tank Repair and Lining, Inc.</i>		<i>Aarco Environmental Services Corp.</i>	
Location	<i>Staten Island, NY</i>		<i>Brooklyn, NY</i>		<i>Lindenhurst, NY</i>	
Type of Waste	<i>Non-hazardous Purge Groundwater</i>		<i>Petroleum-Based Waste</i>		<i>Non-hazardous Purge Water</i>	
Today	Number of Vac Trucks	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Number of Drums	Approx. Volume (gals)
	-	-	-	-	-	-
Total	Number of Loads	Number of Tanks	Number of Loads	Approx. Volume (gals)	Number of Loads	Approx. Volume (gals)
	30	144,085	17	4,800	1	55

MATERIALS IMPORT SUMMARY								
Facility Name								
Location								
Type of Material								
Today	Number of Loads	Volume (CY)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	-	-	-	-	-	-	-	-
Total	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	-	-	-	-	-	-	-	-

SITE PLAN

LEGEND

-  Approx. site boundary
-  Approx. excavation/drilling areas
-  Approx. grading area
-  Approx. soil disposal grid boundary established by Clean Earth
-  Upwind CAMP station
-  Downwind CAMP station
-  Approx. location of stockpile of excavated soil/fill material
-  Approx. location of stockpile of soil/fill material approved by the DEC for on-site reuse
-  Approx. UST location
-  Approx. location of frac tank

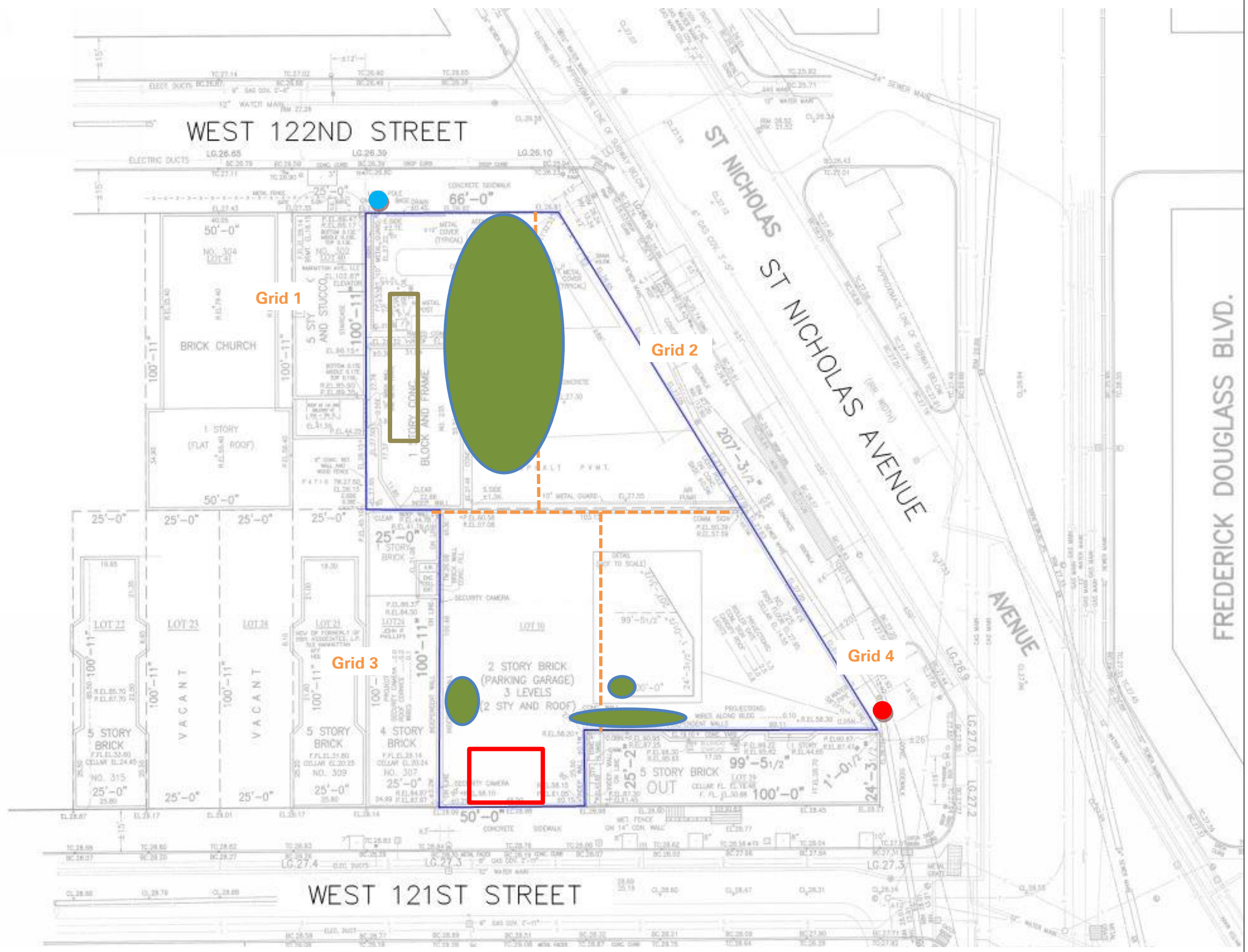


Photo Log

Photo 1:

View of Rise stockpiling material from Grid 3 (16-20) for reuse sampling, facing south.



Photo 2:

View of excavated area in Grid 3, facing southwest.



Photo 3:

View of covered
stockpile from
Grid 3 (16-20),
facing
southwest.





ANALYTICAL REPORT

Lab Number:	L1913801
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	04/08/19

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: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1913801-01	REUSE03_GRAB01	SOIL	NY, NY	04/05/19 11:15	04/05/19
L1913801-02	REUSE03_COMP01	SOIL	NY, NY	04/05/19 11:18	04/05/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Case Narrative

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

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

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

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

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

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

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

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.

Total Metals

L1913801-02: 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 WG1223761-3 MS recoveries for aluminum (155%), iron (0%), and manganese (0%), performed on L1913801-02, do not apply because the sample concentrations are greater than four times the spike amounts added.

The WG1223761-3 MS recovery, performed on L1913801-02, is outside the acceptance criteria for lead (30%). A post digestion spike was performed and was within acceptance criteria.

The WG1223761-4 Laboratory Duplicate RPD for cobalt (21%), lead (58%), magnesium (29%), and nickel (22%), performed on L1913801-02, are above the acceptance criteria; however, the sample and duplicate results are less than five times the reporting limit. Therefore, the RPDs are valid.

Cyanide, Total

The WG1223991-3 LCSD recovery (77%), associated with L1913801-02, 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: 04/08/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-01
Client ID: REUSE03_GRAB01
Sample Location: NY, NY

Date Collected: 04/05/19 11:15
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/07/19 17:11
Analyst: JC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.5	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	0.28	J	ug/kg	0.55	0.22	1
Chlorobenzene	ND		ug/kg	0.55	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.77	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.55	0.18	1
Bromodichloromethane	ND		ug/kg	0.55	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.55	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.55	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.55	0.18	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.55	0.18	1
Benzene	ND		ug/kg	0.55	0.18	1
Toluene	ND		ug/kg	1.1	0.60	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.64	1
Vinyl chloride	ND		ug/kg	1.1	0.37	1
Chloroethane	ND		ug/kg	2.2	0.50	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-01
 Client ID: REUSE03_GRAB01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.55	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.62	1
o-Xylene	ND		ug/kg	1.1	0.32	1
Xylenes, Total	ND		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	ND		ug/kg	11	5.3	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.55	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.19	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.1	0.12	1
Naphthalene	ND		ug/kg	4.4	0.72	1
Acrylonitrile	ND		ug/kg	4.4	1.3	1
Tert-Butyl Alcohol	ND		ug/kg	22	5.7	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19**SAMPLE RESULTS**

Lab ID: L1913801-01
 Client ID: REUSE03_GRAB01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:15
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Acrolein	ND		ug/kg	28	6.2	1
Cyclohexane	ND		ug/kg	11	0.60	1
1,4-Dioxane	ND		ug/kg	88	39.	1
Freon-113	ND		ug/kg	4.4	0.77	1
p-Diethylbenzene	ND		ug/kg	2.2	0.20	1
p-Ethyltoluene	ND		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.5	1.6	1
Methyl cyclohexane	ND		ug/kg	4.4	0.67	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	95		70-130

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/07/19 13:16
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	1.4	J	ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/07/19 13:16
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	0.24	J	ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/07/19 13:16
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/07/19 13:16
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1224216-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
Methylene chloride	101		100		70-130	1		30
1,1-Dichloroethane	112		110		70-130	2		30
Chloroform	107		102		70-130	5		30
Carbon tetrachloride	102		99		70-130	3		30
1,2-Dichloropropane	113		110		70-130	3		30
Dibromochloromethane	98		97		70-130	1		30
1,1,2-Trichloroethane	103		104		70-130	1		30
Tetrachloroethene	92		90		70-130	2		30
Chlorobenzene	99		98		70-130	1		30
Trichlorofluoromethane	87		84		70-139	4		30
1,2-Dichloroethane	109		110		70-130	1		30
1,1,1-Trichloroethane	103		101		70-130	2		30
Bromodichloromethane	105		104		70-130	1		30
trans-1,3-Dichloropropene	108		107		70-130	1		30
cis-1,3-Dichloropropene	105		104		70-130	1		30
1,1-Dichloropropene	107		105		70-130	2		30
Bromoform	95		95		70-130	0		30
1,1,2,2-Tetrachloroethane	104		106		70-130	2		30
Benzene	104		102		70-130	2		30
Toluene	106		103		70-130	3		30
Ethylbenzene	106		103		70-130	3		30
Chloromethane	94		93		52-130	1		30
Bromomethane	92		91		57-147	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
Vinyl chloride	90		87		67-130	3		30
Chloroethane	91		90		50-151	1		30
1,1-Dichloroethene	95		92		65-135	3		30
trans-1,2-Dichloroethene	97		95		70-130	2		30
Trichloroethene	103		101		70-130	2		30
1,2-Dichlorobenzene	98		98		70-130	0		30
1,3-Dichlorobenzene	101		99		70-130	2		30
1,4-Dichlorobenzene	99		98		70-130	1		30
Methyl tert butyl ether	97		98		66-130	1		30
p/m-Xylene	100		97		70-130	3		30
o-Xylene	99		96		70-130	3		30
cis-1,2-Dichloroethene	98		95		70-130	3		30
Dibromomethane	99		98		70-130	1		30
Styrene	97		95		70-130	2		30
Dichlorodifluoromethane	80		77		30-146	4		30
Acetone	106		106		54-140	0		30
Carbon disulfide	98		94		59-130	4		30
2-Butanone	88		87		70-130	1		30
Vinyl acetate	111		110		70-130	1		30
4-Methyl-2-pentanone	97		100		70-130	3		30
1,2,3-Trichloropropane	104		105		68-130	1		30
2-Hexanone	102		103		70-130	1		30
Bromochloromethane	92		94		70-130	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
2,2-Dichloropropane	111		107		70-130	4		30
1,2-Dibromoethane	98		100		70-130	2		30
1,3-Dichloropropane	106		107		69-130	1		30
1,1,1,2-Tetrachloroethane	98		97		70-130	1		30
Bromobenzene	98		97		70-130	1		30
n-Butylbenzene	114		111		70-130	3		30
sec-Butylbenzene	110		108		70-130	2		30
tert-Butylbenzene	106		104		70-130	2		30
o-Chlorotoluene	113		111		70-130	2		30
p-Chlorotoluene	112		110		70-130	2		30
1,2-Dibromo-3-chloropropane	87		91		68-130	4		30
Hexachlorobutadiene	97		94		67-130	3		30
Isopropylbenzene	110		107		70-130	3		30
p-Isopropyltoluene	106		104		70-130	2		30
Naphthalene	93		95		70-130	2		30
Acrylonitrile	101		101		70-130	0		30
Tert-Butyl Alcohol	99		104		70-130	5		30
n-Propylbenzene	114		111		70-130	3		30
1,2,3-Trichlorobenzene	94		94		70-130	0		30
1,2,4-Trichlorobenzene	97		96		70-130	1		30
1,3,5-Trimethylbenzene	108		107		70-130	1		30
1,2,4-Trimethylbenzene	107		104		70-130	3		30
Methyl Acetate	95		96		51-146	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1224216-3 WG1224216-4								
Acrolein	91		94		70-130	3		30
Cyclohexane	115		111		59-142	4		30
1,4-Dioxane	96		97		65-136	1		30
Freon-113	103		99		50-139	4		30
p-Diethylbenzene	106		103		70-130	3		30
p-Ethyltoluene	110		108		70-130	2		30
1,2,4,5-Tetramethylbenzene	101		100		70-130	1		30
Ethyl ether	100		100		67-130	0		30
trans-1,4-Dichloro-2-butene	117		118		70-130	1		30
Methyl cyclohexane	106		103		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		108		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	112		112		70-130
Dibromofluoromethane	97		98		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19**SAMPLE RESULTS**

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/07/19 05:55
 Analyst: SZ
 Percent Solids: 94%

Extraction Method: EPA 3546
 Extraction Date: 04/06/19 03:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	170	17.	1
1,2-Dichlorobenzene	ND		ug/kg	170	31.	1
1,3-Dichlorobenzene	ND		ug/kg	170	30.	1
1,4-Dichlorobenzene	ND		ug/kg	170	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	170	46.	1
2,4-Dinitrotoluene	ND		ug/kg	170	35.	1
2,6-Dinitrotoluene	ND		ug/kg	170	30.	1
Azobenzene	ND		ug/kg	170	17.	1
Fluoranthene	130		ug/kg	100	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	170	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	170	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	17.	1
Hexachlorobutadiene	ND		ug/kg	170	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	170	21.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	170	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	60.	1
Butyl benzyl phthalate	ND		ug/kg	170	44.	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19**SAMPLE RESULTS**

Lab ID: L1913801-02
 Client ID: REUSE03_COMP01
 Sample Location: NY, NY

Date Collected: 04/05/19 11:18
 Date Received: 04/05/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	170	33.	1
Di-n-octylphthalate	ND		ug/kg	170	59.	1
Diethyl phthalate	ND		ug/kg	170	16.	1
Dimethyl phthalate	ND		ug/kg	170	37.	1
Benzo(a)anthracene	76	J	ug/kg	100	20.	1
Benzo(a)pyrene	68	J	ug/kg	140	42.	1
Benzo(b)fluoranthene	84	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	35	J	ug/kg	100	28.	1
Chrysene	67	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	45	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	67	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	50	J	ug/kg	140	24.	1
Pyrene	120		ug/kg	100	17.	1
Biphenyl	ND		ug/kg	400	40.	1
4-Chloroaniline	ND		ug/kg	170	32.	1
2-Nitroaniline	ND		ug/kg	170	34.	1
3-Nitroaniline	ND		ug/kg	170	33.	1
4-Nitroaniline	ND		ug/kg	170	72.	1
Dibenzofuran	ND		ug/kg	170	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	18.	1
Acetophenone	ND		ug/kg	170	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	33.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	1
p-Chloro-m-cresol	ND		ug/kg	170	26.	1
2-Chlorophenol	ND		ug/kg	170	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	170	58.	1
2-Nitrophenol	ND		ug/kg	380	66.	1
4-Nitrophenol	ND		ug/kg	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	81.	1
4,6-Dinitro-o-cresol	ND		ug/kg	450	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	170	26.	1
2-Methylphenol	ND		ug/kg	170	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
2,4,5-Trichlorophenol	ND		ug/kg	170	33.	1
Benzoic Acid	ND		ug/kg	560	180	1
Benzyl Alcohol	ND		ug/kg	170	53.	1
Carbazole	ND		ug/kg	170	17.	1
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	170	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	77		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	88		10-136
4-Terphenyl-d14	84		18-120

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/06/19 23:58
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 04/06/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1223743-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	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	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	97	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	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	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.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/19 23:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1223743-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
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	32.
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	23.
Pyrene	ND		ug/kg	97	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	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.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
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.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/06/19 23:58
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/06/19 03:36

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1223743-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	61.
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	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	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		25-120
Phenol-d6	81		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	93		10-136
4-Terphenyl-d14	87		18-120

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223743-2 WG1223743-3								
Acenaphthene	80		74		31-137	8		50
Benzidine	44		44		10-66	0		50
1,2,4-Trichlorobenzene	76		69		38-107	10		50
Hexachlorobenzene	81		78		40-140	4		50
Bis(2-chloroethyl)ether	72		65		40-140	10		50
2-Chloronaphthalene	78		72		40-140	8		50
1,2-Dichlorobenzene	74		68		40-140	8		50
1,3-Dichlorobenzene	75		68		40-140	10		50
1,4-Dichlorobenzene	75		69		28-104	8		50
3,3'-Dichlorobenzidine	60		62		40-140	3		50
2,4-Dinitrotoluene	98		92		40-132	6		50
2,6-Dinitrotoluene	94		90		40-140	4		50
Azobenzene	78		76		40-140	3		50
Fluoranthene	82		78		40-140	5		50
4-Chlorophenyl phenyl ether	78		75		40-140	4		50
4-Bromophenyl phenyl ether	82		77		40-140	6		50
Bis(2-chloroisopropyl)ether	66		61		40-140	8		50
Bis(2-chloroethoxy)methane	76		69		40-117	10		50
Hexachlorobutadiene	73		68		40-140	7		50
Hexachlorocyclopentadiene	66		59		40-140	11		50
Hexachloroethane	72		66		40-140	9		50
Isophorone	80		73		40-140	9		50
Naphthalene	74		70		40-140	6		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223743-2 WG1223743-3								
Nitrobenzene	77		71		40-140	8		50
NDPA/DPA	83		79		36-157	5		50
n-Nitrosodi-n-propylamine	81		72		32-121	12		50
Bis(2-ethylhexyl)phthalate	89		83		40-140	7		50
Butyl benzyl phthalate	88		81		40-140	8		50
Di-n-butylphthalate	92		88		40-140	4		50
Di-n-octylphthalate	91		85		40-140	7		50
Diethyl phthalate	85		82		40-140	4		50
Dimethyl phthalate	86		81		40-140	6		50
Benzo(a)anthracene	83		79		40-140	5		50
Benzo(a)pyrene	87		82		40-140	6		50
Benzo(b)fluoranthene	86		78		40-140	10		50
Benzo(k)fluoranthene	83		80		40-140	4		50
Chrysene	78		73		40-140	7		50
Acenaphthylene	85		81		40-140	5		50
Anthracene	83		79		40-140	5		50
Benzo(ghi)perylene	81		76		40-140	6		50
Fluorene	82		79		40-140	4		50
Phenanthrene	78		75		40-140	4		50
Dibenzo(a,h)anthracene	83		78		40-140	6		50
Indeno(1,2,3-cd)pyrene	85		80		40-140	6		50
Pyrene	80		76		35-142	5		50
Biphenyl	84		79		54-104	6		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223743-2 WG1223743-3								
4-Chloroaniline	55		53		40-140	4		50
2-Nitroaniline	92		88		47-134	4		50
3-Nitroaniline	67		64		26-129	5		50
4-Nitroaniline	87		84		41-125	4		50
Dibenzofuran	82		78		40-140	5		50
2-Methylnaphthalene	78		71		40-140	9		50
1,2,4,5-Tetrachlorobenzene	81		73		40-117	10		50
Acetophenone	83		75		14-144	10		50
n-Nitrosodimethylamine	72		65		22-100	10		50
2,4,6-Trichlorophenol	87		82		30-130	6		50
p-Chloro-m-cresol	87		81		26-103	7		50
2-Chlorophenol	81		74		25-102	9		50
2,4-Dichlorophenol	89		82		30-130	8		50
2,4-Dimethylphenol	84		77		30-130	9		50
2-Nitrophenol	88		79		30-130	11		50
4-Nitrophenol	84		81		11-114	4		50
2,4-Dinitrophenol	69		67		4-130	3		50
4,6-Dinitro-o-cresol	87		83		10-130	5		50
Pentachlorophenol	73		69		17-109	6		50
Phenol	72		66		26-90	9		50
2-Methylphenol	80		74		30-130	8		50
3-Methylphenol/4-Methylphenol	81		74		30-130	9		50
2,4,5-Trichlorophenol	85		83		30-130	2		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223743-2 WG1223743-3								
Benzoic Acid	67		65		10-110	3		50
Benzyl Alcohol	82		74		40-140	10		50
Carbazole	86		82		54-128	5		50
Atrazine	102		98		40-140	4		50
Benzaldehyde	81		74		40-140	9		50
Caprolactam	96		90		15-130	6		50
2,3,4,6-Tetrachlorophenol	84		80		40-140	5		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		72		25-120
Phenol-d6	79		73		10-120
Nitrobenzene-d5	79		71		23-120
2-Fluorobiphenyl	79		73		30-120
2,4,6-Tribromophenol	94		91		10-136
4-Terphenyl-d14	81		77		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/07/19 20:01
Analyst: HT
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/06/19 04:04
Cleanup Method: EPA 3665A
Cleanup Date: 04/06/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.2	3.03	1	A
Aroclor 1221	ND		ug/kg	34.2	3.42	1	A
Aroclor 1232	ND		ug/kg	34.2	7.24	1	A
Aroclor 1242	ND		ug/kg	34.2	4.61	1	A
Aroclor 1248	ND		ug/kg	34.2	5.13	1	A
Aroclor 1254	ND		ug/kg	34.2	3.74	1	A
Aroclor 1260	ND		ug/kg	34.2	6.32	1	A
Aroclor 1262	ND		ug/kg	34.2	4.34	1	A
Aroclor 1268	ND		ug/kg	34.2	3.54	1	A
PCBs, Total	ND		ug/kg	34.2	3.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	42		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/07/19 20:14
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/05/19 22:28
Cleanup Method: EPA 3665A
Cleanup Date: 04/06/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/06/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1223712-1						
Aroclor 1016	ND		ug/kg	32.5	2.88	A
Aroclor 1221	ND		ug/kg	32.5	3.26	A
Aroclor 1232	ND		ug/kg	32.5	6.89	A
Aroclor 1242	ND		ug/kg	32.5	4.38	A
Aroclor 1248	ND		ug/kg	32.5	4.87	A
Aroclor 1254	ND		ug/kg	32.5	3.55	A
Aroclor 1260	ND		ug/kg	32.5	6.00	A
Aroclor 1262	ND		ug/kg	32.5	4.13	A
Aroclor 1268	ND		ug/kg	32.5	3.36	A
PCBs, Total	ND		ug/kg	32.5	2.88	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	44		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223712-2 WG1223712-3									
Aroclor 1016	62		58		40-140	7		50	A
Aroclor 1260	56		50		40-140	11		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		58		30-150	A
Decachlorobiphenyl	67		57		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		69		30-150	B
Decachlorobiphenyl	72		67		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/08/19 11:59
Analyst: KEG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 04/06/19 03:48
Cleanup Method: EPA 3620B
Cleanup Date: 04/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.64	0.322	1	A
Lindane	ND		ug/kg	0.686	0.306	1	A
Alpha-BHC	ND		ug/kg	0.686	0.195	1	A
Beta-BHC	ND		ug/kg	1.64	0.624	1	A
Heptachlor	ND		ug/kg	0.823	0.369	1	A
Aldrin	ND		ug/kg	1.64	0.579	1	A
Heptachlor epoxide	ND		ug/kg	3.08	0.926	1	A
Endrin	ND		ug/kg	0.686	0.281	1	A
Endrin aldehyde	ND		ug/kg	2.06	0.720	1	A
Endrin ketone	ND		ug/kg	1.64	0.424	1	A
Dieldrin	ND		ug/kg	1.03	0.514	1	A
4,4'-DDE	ND		ug/kg	1.64	0.380	1	A
4,4'-DDD	ND		ug/kg	1.64	0.587	1	A
4,4'-DDT	ND		ug/kg	3.08	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.389	1	A
Endosulfan II	ND		ug/kg	1.64	0.550	1	A
Endosulfan sulfate	ND		ug/kg	0.686	0.326	1	A
Methoxychlor	ND		ug/kg	3.08	0.960	1	A
Toxaphene	ND		ug/kg	30.8	8.64	1	A
cis-Chlordane	ND	IP	ug/kg	2.06	0.573	1	B
trans-Chlordane	ND		ug/kg	2.06	0.543	1	A
Chlordane	ND		ug/kg	13.4	5.45	1	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
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	79		30-150	B
Decachlorobiphenyl	100		30-150	B
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	94		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/08/19 12:21
Analyst: DGM
Percent Solids: 94%
Methylation Date: 04/06/19 21:12

Extraction Method: EPA 8151A
Extraction Date: 04/06/19 02:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column

Chlorinated Herbicides by GC - Westborough Lab

2,4-D	ND		ug/kg	177	11.2	1	A
2,4,5-T	ND		ug/kg	177	5.49	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	69		30-150	B

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/08/19 11:22
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/05/19 23:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1223716-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.632	0.283	A
Alpha-BHC	ND		ug/kg	0.632	0.180	A
Beta-BHC	ND		ug/kg	1.52	0.576	A
Heptachlor	ND		ug/kg	0.759	0.340	A
Aldrin	ND		ug/kg	1.52	0.534	A
Heptachlor epoxide	ND		ug/kg	2.85	0.854	A
Endrin	ND		ug/kg	0.632	0.259	A
Endrin aldehyde	ND		ug/kg	1.90	0.664	A
Endrin ketone	ND		ug/kg	1.52	0.391	A
Dieldrin	ND		ug/kg	0.949	0.474	A
4,4'-DDE	ND		ug/kg	1.52	0.351	A
4,4'-DDD	ND		ug/kg	1.52	0.541	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	0.507	A
Endosulfan sulfate	ND		ug/kg	0.632	0.301	A
Methoxychlor	ND		ug/kg	2.85	0.886	A
Toxaphene	ND		ug/kg	28.5	7.97	A
cis-Chlordane	ND		ug/kg	1.90	0.529	A
trans-Chlordane	ND		ug/kg	1.90	0.501	A
Chlordane	ND		ug/kg	12.3	5.03	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/08/19 11:22
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/05/19 23:12
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/07/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1223716-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	103		30-150	B
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	98		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/08/19 12:39
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/05/19 21:32

Methylation Date: 04/06/19 21:12

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1223735-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.09	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.36	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	79		30-150	A
DCAA	70		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1223716-2 WG1223716-3									
Delta-BHC	75		78		30-150	4		30	A
Lindane	76		78		30-150	3		30	A
Alpha-BHC	77		82		30-150	6		30	A
Beta-BHC	79		77		30-150	3		30	A
Heptachlor	85		86		30-150	1		30	A
Aldrin	79		80		30-150	1		30	A
Heptachlor epoxide	95		89		30-150	7		30	A
Endrin	84		87		30-150	4		30	A
Endrin aldehyde	55		60		30-150	9		30	A
Endrin ketone	69		75		30-150	8		30	A
Dieldrin	81		83		30-150	2		30	A
4,4'-DDE	72		77		30-150	7		30	A
4,4'-DDD	77		77		30-150	0		30	A
4,4'-DDT	81		83		30-150	2		30	A
Endosulfan I	75		77		30-150	3		30	A
Endosulfan II	74		78		30-150	5		30	A
Endosulfan sulfate	58		63		30-150	8		30	A
Methoxychlor	76		75		30-150	1		30	A
cis-Chlordane	66		68		30-150	3		30	A
trans-Chlordane	72		70		30-150	3		30	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 300 WEST 122ND STREET**Project Number:** 170500202**Lab Number:** L1913801**Report Date:** 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1223716-2 WG1223716-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		80		30-150	B
Decachlorobiphenyl	103		109		30-150	B
2,4,5,6-Tetrachloro-m-xylene	77		78		30-150	A
Decachlorobiphenyl	95		98		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223735-2 WG1223735-3									
2,4-D	89		89		30-150	0		30	A
2,4,5-T	77		79		30-150	3		30	A
2,4,5-TP (Silvex)	79		82		30-150	4		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	77		80		30-150	A
DCAA	71		74		30-150	B

METALS

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19**SAMPLE RESULTS**

Lab ID: L1913801-02

Date Collected: 04/05/19 11:18

Client ID: REUSE03_COMP01

Date Received: 04/05/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2260		mg/kg	8.33	2.25	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.17	0.317	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Arsenic, Total	0.967		mg/kg	0.833	0.173	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Barium, Total	31.0		mg/kg	0.833	0.145	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Beryllium, Total	0.125	J	mg/kg	0.417	0.028	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Cadmium, Total	0.108	J	mg/kg	0.833	0.082	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Calcium, Total	4020		mg/kg	8.33	2.92	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Chromium, Total	5.71		mg/kg	0.833	0.080	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Cobalt, Total	3.12		mg/kg	1.67	0.138	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Copper, Total	10.5		mg/kg	0.833	0.215	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Iron, Total	5490		mg/kg	4.17	0.752	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Lead, Total	52.6		mg/kg	4.17	0.223	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Magnesium, Total	1490		mg/kg	8.33	1.28	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Manganese, Total	262		mg/kg	0.833	0.132	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Mercury, Total	0.032	J	mg/kg	0.067	0.014	1	04/06/19 06:20	04/06/19 12:23	EPA 7471B	1,7471B	BV
Nickel, Total	8.04		mg/kg	2.08	0.202	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Potassium, Total	502		mg/kg	208	12.0	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.67	0.215	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.833	0.236	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Sodium, Total	90.4	J	mg/kg	167	2.62	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.67	0.262	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Vanadium, Total	7.68		mg/kg	0.833	0.169	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
Zinc, Total	22.9		mg/kg	4.17	0.244	2	04/06/19 07:40	04/06/19 11:36	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.5	J	mg/kg	0.86	0.86	1		04/08/19 09:33	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

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: WG1223754-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/06/19 06:20	04/06/19 11:47	1,7471B	BV

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): 02 Batch: WG1223761-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Iron, Total	0.544	J	mg/kg	2.00	0.361	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/06/19 07:40	04/06/19 11:22	1,6010D	LC

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 3050B

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 300 WEST 122ND STREET**Project Number:** 170500202**Lab Number:** L1913801**Report Date:** 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1223754-2 SRM Lot Number: D101-540								
Mercury, Total	96		-		65-135	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1223761-2 SRM Lot Number: D101-540					
Aluminum, Total	74	-	50-151	-	
Antimony, Total	156	-	3-196	-	
Arsenic, Total	104	-	83-117	-	
Barium, Total	97	-	83-118	-	
Beryllium, Total	100	-	83-117	-	
Cadmium, Total	98	-	83-117	-	
Calcium, Total	97	-	81-119	-	
Chromium, Total	99	-	81-118	-	
Cobalt, Total	101	-	84-116	-	
Copper, Total	101	-	83-116	-	
Iron, Total	89	-	62-138	-	
Lead, Total	98	-	83-117	-	
Magnesium, Total	86	-	76-124	-	
Manganese, Total	96	-	82-118	-	
Nickel, Total	98	-	82-117	-	
Potassium, Total	90	-	71-130	-	
Selenium, Total	105	-	79-121	-	
Silver, Total	98	-	80-120	-	
Sodium, Total	104	-	72-127	-	
Thallium, Total	101	-	81-119	-	
Vanadium, Total	95	-	79-121	-	

Lab Control Sample Analysis
Batch Quality Control**Project Name:** 300 WEST 122ND STREET**Project Number:** 170500202**Lab Number:** L1913801**Report Date:** 04/08/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1223761-2 SRM Lot Number: D101-540					
Zinc, Total	100	-	81-119	-	

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Lab Number: L1913801

Project Number: 170500202

Report Date: 04/08/19

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): 02 QC Batch ID: WG1223754-3 QC Sample: L1913747-01 Client ID: MS Sample												
Mercury, Total	0.761	0.183	0.931	93		-	-		80-120	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223761-3 QC Sample: L1913801-02 Client ID: REUSE03_COMP01									
Aluminum, Total	2260	168	2520	155	Q	-	75-125	-	20
Antimony, Total	ND	41.9	39.7	95		-	75-125	-	20
Arsenic, Total	0.967	10.1	11.5	105		-	75-125	-	20
Barium, Total	31.0	168	198	100		-	75-125	-	20
Beryllium, Total	0.125J	4.19	4.29	102		-	75-125	-	20
Cadmium, Total	0.108J	4.28	4.41	103		-	75-125	-	20
Calcium, Total	4020	838	4750	87		-	75-125	-	20
Chromium, Total	5.71	16.8	22.6	101		-	75-125	-	20
Cobalt, Total	3.12	41.9	43.2	96		-	75-125	-	20
Copper, Total	10.5	21	30.8	97		-	75-125	-	20
Iron, Total	5490	83.8	5130	0	Q	-	75-125	-	20
Lead, Total	52.6	42.8	65.4	30	Q	-	75-125	-	20
Magnesium, Total	1490	838	2220	87		-	75-125	-	20
Manganese, Total	262	41.9	254	0	Q	-	75-125	-	20
Nickel, Total	8.04	41.9	46.0	90		-	75-125	-	20
Potassium, Total	502	838	1400	107		-	75-125	-	20
Selenium, Total	ND	10.1	10.0	99		-	75-125	-	20
Silver, Total	ND	25.2	25.0	99		-	75-125	-	20
Sodium, Total	90.4J	838	977	116		-	75-125	-	20
Thallium, Total	ND	10.1	9.84	98		-	75-125	-	20
Vanadium, Total	7.68	41.9	50.3	102		-	75-125	-	20

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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: WG1223761-3 QC Sample: L1913801-02 Client ID: REUSE03_COMP01									
Zinc, Total	22.9	41.9	62.0	93	-	-	75-125	-	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223754-4 QC Sample: L1913747-01 Client ID: DUP Sample						
Mercury, Total	0.761	1.11	mg/kg	37	Q	20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1913801
Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223761-4 QC Sample: L1913801-02 Client ID: REUSE03_COMP01					
Aluminum, Total	2260	2340	mg/kg	3	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	0.967	1.02	mg/kg	5	20
Barium, Total	31.0	30.5	mg/kg	2	20
Beryllium, Total	0.125J	0.124J	mg/kg	NC	20
Cadmium, Total	0.108J	0.099J	mg/kg	NC	20
Calcium, Total	4020	4840	mg/kg	19	20
Chromium, Total	5.71	5.32	mg/kg	7	20
Cobalt, Total	3.12	2.52	mg/kg	21	Q 20
Copper, Total	10.5	10.2	mg/kg	3	20
Iron, Total	5490	5310	mg/kg	3	20
Lead, Total	52.6	28.9	mg/kg	58	Q 20
Magnesium, Total	1490	1110	mg/kg	29	Q 20
Manganese, Total	262	231	mg/kg	13	20
Nickel, Total	8.04	6.47	mg/kg	22	Q 20
Potassium, Total	502	555	mg/kg	10	20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	90.4J	80.6J	mg/kg	NC	20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1223761-4 QC Sample: L1913801-02 Client ID: REUSE03_COMP01					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	7.68	7.25	mg/kg	6	20
Zinc, Total	22.9	24.0	mg/kg	5	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-01
Client ID: REUSE03_GRAB01
Sample Location: NY, NY

Date Collected: 04/05/19 11:15
Date Received: 04/05/19
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	04/06/19 04:17	121,2540G	YA



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

SAMPLE RESULTS

Lab ID: L1913801-02
Client ID: REUSE03_COMP01
Sample Location: NY, NY

Date Collected: 04/05/19 11:18
Date Received: 04/05/19
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	93.6		%	0.100	NA	1	-	04/06/19 04:17	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/07/19 15:55	04/08/19 11:10	1,9010C/9012B	LH
Chromium, Hexavalent	0.171	J	mg/kg	0.855	0.171	1	04/08/19 00:58	04/08/19 09:33	1,7196A	NH



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

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): 02 Batch: WG1223991-1										
Cyanide, Total	ND		mg/kg	1.0	0.21	1	04/07/19 15:55	04/08/19 10:59	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1224060-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/08/19 00:58	04/08/19 09:33	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1223991-2 WG1223991-3								
Cyanide, Total	92		77	Q	80-120	25		35
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1224060-2								
Chromium, Hexavalent	94		-		80-120	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1913801

Report Date: 04/08/19

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): 02 QC Batch ID: WG1223991-4 WG1223991-5 QC Sample: L1913801-02 Client ID: REUSE03_COMP01

Cyanide, Total	ND	10	8.2	80		8.7	88		75-125	6		35

General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1224060-4 QC Sample: L1913801-02 Client ID: REUSE03_COMP01

Chromium, Hexavalent	0.171J	1320	1300	98		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1223737-1 QC Sample: L1913770-01 Client ID: DUP Sample						
Solids, Total	78.7	81.1	%	3		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1224060-6 QC Sample: L1913801-02 Client ID: REUSE03_COMP01						
Chromium, Hexavalent	0.171J	0.171J	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET**Lab Number:** L1913801**Project Number:** 170500202**Report Date:** 04/08/19**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(*)
L1913801-01A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L1913801-01B	Vial water preserved	A	NA		2.7	Y	Absent	06-APR-19 01:19	NYTCL-8260HLW(14)
L1913801-01C	Vial water preserved	A	NA		2.7	Y	Absent	06-APR-19 01:19	NYTCL-8260HLW(14)
L1913801-01D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L1913801-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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)
L1913801-02B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1913801-02C	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1913801
Report Date: 04/08/19

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.



Alpha Analytical, Inc.Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**Revision **12**

Published Date: 10/9/2018 4:58:19 PM

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

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

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

 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 <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>4/5/19</u>		ALPHA Job # <u>L1915801</u>																																																																																																																																																										
		Project Information Project Name: <u>300 West. 122nd Street</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #																																																																																																																																																												
Client Information Client: <u>LANGAN, DPC</u> Address: <u>21 Penn Plaza, 360 W. 31st St.</u> <u>NY, NY</u> Phone: <u>212-479-5400</u> Fax: <u>212-479-5400</u> Email: <u>GWYKA@LANGAN.COM</u>		Project Manager: <u>Greg Wyka</u> ALPHAQuote #: Turn-Around Time:		Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☒ Other <u>TCL</u> ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																												
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS TCL/Part 375 VOCs SWOCs PCBs Pest./Herb TAL Metals + total cyanide + hex/tri-chlorine		Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below)		Total Bottles																																																																																																																																																												
Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th colspan="6">ANALYSIS</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> <th>TCL/Part 375 VOCs</th> <th>SWOCs</th> <th>PCBs</th> <th>Pest./Herb</th> <th>TAL Metals + total cyanide + hex/tri-chlorine</th> </tr> </thead> <tbody> <tr> <td rowspan="2">15801-01</td> <td>REUSE03-GRAB01</td> <td>4/5/19</td> <td>1115</td> <td>SOIL</td> <td>AS</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="2">(3) VBA, (1) Plastic (1) 4oz, (1) 8oz, (1) 16oz A glass</td> </tr> <tr> <td>REUSE03-COMPO1</td> <td>↓</td> <td>1118</td> <td>↓</td> <td>↓</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID		Collection		Sample Matrix	Sampler's Initials	ANALYSIS						Sample Specific Comments	Date	Time	TCL/Part 375 VOCs	SWOCs	PCBs	Pest./Herb	TAL Metals + total cyanide + hex/tri-chlorine	15801-01	REUSE03-GRAB01	4/5/19	1115	SOIL	AS	X							(3) VBA, (1) Plastic (1) 4oz, (1) 8oz, (1) 16oz A glass	REUSE03-COMPO1	↓	1118	↓	↓		X	X	X	X																																																																																																																		
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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: <u>[Signature]</u>		Date/Time: <u>4/5/19 1330</u> <u>4/5/19 1700</u>		Received By: <u>[Signature]</u>		Date/Time: <u>4/5/19 1330</u> <u>4/5/19 2250</u>																																																																																																																																																												

From: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Sent: Monday, April 15, 2019 3:52 PM
To: Julia Leung
Cc: O'Connell, Jane H (DEC); Mimi Raygorodetsky; Greg Wyka; Ashley Stappenbeck; David Yudelson; Levi Balkany; Naftali L
Subject: RE: 300 W 122nd Street C231067 - Soil Reuse Request

Julia: The Department has reviewed the request dated April 9, 2019 to reuse 40 cubic yards of soil at the Former Shell site # C231067 site. Based on the information provided, the request is hereby approved.

The proposed fill material meets the Unrestricted Use Soil Cleanup Objectives re: Appendix 5 of DER-10.

P.S. In future please refer to DER-10 rather than CP-51

Nigel N. Crawford, P.E.

Environmental Engineer 2,
Division of Environmental Remediation

New York State Department of Environmental Conservation

NYSDEC Region 2
47-40 21st Street, LIC New York 11101
P: (718) 482-7778 | F: (718) 482-6358
nigel.crawford@dec.ny.gov
www.dec.ny.gov

From: Julia Leung <JLeung@Langan.com>
Sent: Tuesday, April 09, 2019 1:53 PM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Cc: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; Mimi Raygorodetsky <mraygorodetsky@langan.com>; Greg Wyka <gwyka@langan.com>; Ashley Stappenbeck <astappenbeck@langan.com>; David Yudelson <dyudelson@sprlaw.com>; Levi Balkany <Levi@happylivingdev.com>; Naftali L <naftalil@happylivingdev.com>
Subject: 300 W 122nd Street C231067 - Soil Reuse Request

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Nigel,

Please find attached a soil reuse request for the 300 W 122nd Street for your review and approval. About 40 cubic yards of on-site soil was segregated, stockpiled, and sampled for lab analysis of Part 375 parameters. The material meets Unrestricted Use SCOs. If you could please issue your approval before the end of the week, we would greatly appreciate it.

Thank you,

Julia Leung
Project Engineer
Direct: 212.479.5452
Mobile: 917.892.3222
[File Sharing Link](#)

LANGAN

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

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VIRGINIA WEST VIRGINIA OHIO FLORIDA TEXAS COLORADO ARIZONA CALIFORNIA
ABU DHABI ATHENS DOHA DUBAI LONDON PANAMA

A Carbon-Neutral Firm | Langan's goal is to be SAFE (Stay Accident Free Everyday)

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

About 20 cubic yards of soil was excavated by Rise Development on 4/11/2019 and placed in a stockpile on poly sheeting for reuse sampling. Langan collected one grab sample and one composite sample for lab analysis consistent with NYSDEC DER-10 Appendix 5. The contractor may use this material as backfill in the southwestern portion of the site to bring the site elevation to grade. See attached figure for proposed placement areas. The proposed reuse material will be field screened, tracked and documented by Langan field staff under the supervision of the PE.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

See attached analytical data table with comparisons to the Part 375 Unrestricted Use SCOs. No analytes exceeded the Unrestricted Use SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Excavated on-site soil meeting reuse criteria specified in NYSDEC-approved RAWP

Location where fill was obtained:

300 West 122nd Street (Former Shell BCP Site No. C231067)

Identification of any state or local approvals as a fill source:

N/A

If no approvals are available, provide a brief history of the use of the property that is the fill source:

See RIR and RAWP

Provide a list of supporting documentation included with this request:

See attached Table 1, Figure 1, Alpha Lab Report L1914743, and Daily Field Report (DFR) for 4/11/2019.

The information provided on this form is accurate and complete.



Signature

4/16/2019

Date

Gregory C. Wyka

Print Name

Langan

Firm

Table 1
Soil Analytical Results Summary
Materials Reuse - Grid 3 Stockpile

300 West 122nd Street
New York, New York
Langan Project No. 170500201
BCP Project No. C231067

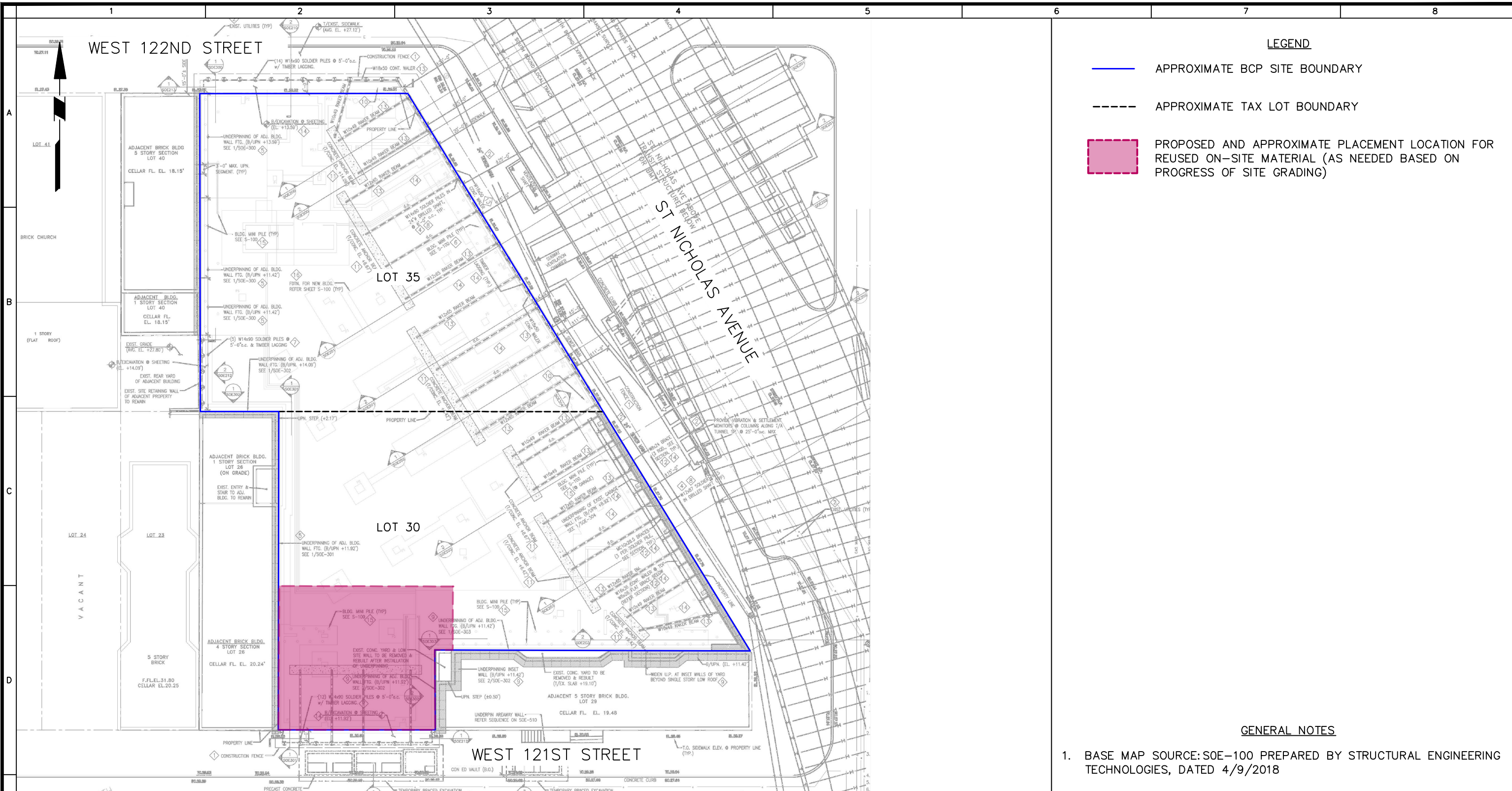
Sample ID Laboratory Sample ID Sample Date Sample Depth Interval (feet bgs)	NYSDEC Part 375 UU SCOs	REUSE04_GRAB01 L1914743-01 4/11/2019 20-21	REUSE04_COMP01 L1914743-02 4/11/2019 20-21
Volatile Organic Compounds (VOCs) (mg/kg)			
Acetone	0.05	0.041	NA
Tert-Butyl Alcohol	~	0.012 J	NA
Semivolatile Organic Compounds (SVOCs) (mg/kg)			
Benzo(a)anthracene	1	NA	0.04 J
Benzo(b)fluoranthene	1	NA	0.045 J
Benzo(ghi)perylene	100	NA	0.02 J
Chrysene	1	NA	0.032 J
Fluoranthene	100	NA	0.062 J
Phenanthrene	100	NA	0.026 J
Pyrene	100	NA	0.058 J
Polychlorinated Biphenyls (PCBs) (mg/kg)			
PCBs, Total	0.1	NA	ND
Pesticides (mg/kg)			
Total Herbicides	~	NA	ND
Herbicides (mg/kg)			
Total Herbicides	~	NA	ND
Inorganics (mg/kg)			
Aluminum, Total	~	NA	1750
Arsenic, Total	13	NA	0.313 J
Barium, Total	350	NA	18.1
Beryllium, Total	7.2	NA	0.093 J
Calcium, Total	~	NA	1300
Chromium, Total	~	NA	5.1
Chromium, Trivalent	30	NA	5.1
Cobalt, Total	~	NA	1.86
Copper, Total	50	NA	6.89
Iron, Total	~	NA	3730
Lead, Total	63	NA	7.24
Magnesium, Total	~	NA	1030
Manganese, Total	1600	NA	173
Nickel, Total	30	NA	5.27
Potassium, Total	~	NA	318
Sodium, Total	~	NA	86.6 J
Vanadium, Total	~	NA	5.75
Zinc, Total	109	NA	11.1

Notes:

1. Grab and composite soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UU SCOs).
2. Only detected analytes are shown in table
3. Analytes with concentrations greater than the NYSDEC DER-10 UU SCOs are shaded and bold.
4. mg/kg = milligram per kilogram
5. ~ = Criterion does not exist
6. NA = Not Analyzed
7. ND = Not Detected

Qualifiers:

J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.



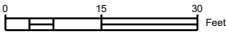
LEGEND

- APPROXIMATE BCP SITE BOUNDARY
- APPROXIMATE TAX LOT BOUNDARY
- PROPOSED AND APPROXIMATE PLACEMENT LOCATION FOR REUSED ON-SITE MATERIAL (AS NEEDED BASED ON PROGRESS OF SITE GRADING)

GENERAL NOTES

- BASE MAP SOURCE: SOE-100 PREPARED BY STRUCTURAL ENGINEERING TECHNOLOGIES, DATED 4/9/2018

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.



LANGAN

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Langan Engineering, Environmental, Surveying and
Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

**300 WEST 122ND
STREET**

**BLOCK No. 1948, LOT Nos. 30 & 35
MANHATTAN**

NEW YORK

NEW YORK

Figure Title

**CONSTRUCTION
SITE PLAN**

**PROPOSED
MATERIALS REUSE**

Project No.
170500201

Date
4/9/2019

Scale
1" = 30'

Drawn By
JL

Checked By
GCW

Submission Date

Figure No.

1

Sheet 1 of 1

DAILY FIELD REPORT

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

BCP Project No:	C231067	E-Number:	E-120 / 14EHAZ282M	Date:	April 11, 2019
Project Name:	300 West 122 nd Street				

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.	Langan Field Engineer: Ashley Stappenbeck	
Construction Manager: Happy Living Development General Contractor: Happy Living Development Foundation Contractor: Rise Development		
Work Activities Performed (Since Last Report): • Rise Development (Rise) excavated about 20 cubic yards of soil from the southern portion of Grid 3 (20-21). The material was screened for odors, staining and organic vapors using a photoionization detector (PID). Excavated soil did not exhibit evidence of petroleum impacts (i.e., petroleum-like odor, staining, and elevated PID readings above background). Soil was stockpiled on polyethylene sheeting. Langan collected one grab and one composite sample from the stockpile for laboratory analysis of soil reuse parameters, the details of which are provided below. • Rise chopped concrete from historic foundation elements (i.e. stone foundation wall, footings, etc) along the eastern portion of Grid 3. • Rise imported about 20 cubic yards of ¾" clean stone from RockTech of New Jersey in Jersey City, New Jersey (Mine Registration No. 004657). • Rise laid and compacted an about 6- to 12-inch layer of ¾" clean stone at the base of the excavation in Grid 3. • Community Air Monitoring Plan (CAMP) was implemented at upwind (northwest) and downwind locations (southeast). Continuous monitoring was performed during construction activity. Organic vapor and particulate action levels were not exceeded during the monitoring period at the downwind CAMP station.		
Samples Collected (Since Last Report): • Langan collected one grab and one composite sample from a stockpile of Grid 3 (20-21) soil. Soil samples REUSE04_GRAB01 and REUSE04_COMP01 were submitted on ice in a cooler to Alpha Analytical Laboratories, Inc., of Westborough, Massachusetts for analysis of New York State Department of Environmental Conservation (NYSDEC) Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (including hexavalent/trivalent chromium), and cyanide.		

Air Monitoring (Since Last Report):

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)		
Daily background	0.000		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	0.008	0.011	Daily Time Weighted Average	0.0	0.0
Maximum 15-min Average	0.013	0.020	Maximum 15-min Average	0.0	0.1
Minimum 1-min Instant Reading	0.000	0.000	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	0.034	0.000	Maximum 1-min Instant Reading	0.0	0.1

mg/m³ = micrograms per cubic meter.

ppm= parts per million.

Problems Encountered:

- None.

Planned Activities:

- Excavate soil, install waterproofing.

CONSTRUCTION/FOUNDATION - EXPORT/IMPORT SUMMARIES

MATERIALS EXPORT SUMMARY 1						
Facility Name	<i>Bayshore Soil Management, LLC</i>		<i>Resource Management Technologies, LLC</i>		<i>Allocco Recycling, Ltd.</i>	
Location	<i>Keasbey, NJ</i>		<i>North Bergen, NJ</i>		<i>Brooklyn, NY</i>	
Type of Waste	<i>Non-Hazardous Fill Material</i>		<i>C&D Material</i>		<i>C&D Material</i>	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)
	-	-	-	-	-	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)
	486	9,720	26	540	11	300

MATERIALS EXPORT SUMMARY 2						
Facility Name	<i>Clean Water of New York</i>		<i>ABC Tank Repair and Lining, Inc.</i>		<i>Aarco Environmental Services Corp.</i>	
Location	<i>Staten Island, NY</i>		<i>Brooklyn, NY</i>		<i>Lindenhurst, NY</i>	
Type of Waste	<i>Non-hazardous Purge Groundwater</i>		<i>Petroleum-Based Waste</i>		<i>Non-hazardous Purge Water</i>	
Today	Number of Vac Trucks	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Number of Drums	Approx. Volume (gals)
	-	-	-	-	-	-
Total	Number of Loads	Number of Tanks	Number of Loads	Approx. Volume (gals)	Number of Loads	Approx. Volume (gals)
	30	145,878	17	4,800	1	55

MATERIALS IMPORT SUMMARY								
Facility Name	<i>RockTech of New Jersey, LLC</i>							
Location	<i>Jersey City, NJ</i>							
Type of Material	<i>¾" Clean Stone</i>							
Today	Number of Loads	Volume (CY)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	1	20	-	-	-	-	-	-
Total	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	1	20	-	-	-	-	-	-

SITE PLAN

LEGEND

-  Approx. site boundary
-  Approx. excavation/drilling areas
-  Approx. grading area
-  Approx. soil disposal grid boundary established by Clean Earth
-  Upwind CAMP station
-  Downwind CAMP station
-  Approx. location of stockpile of excavated soil/fill material
-  Approx. location of stockpile of soil/fill material approved by the DEC for on-site reuse
-  Approx. UST location
-  Approx. location of frac tank

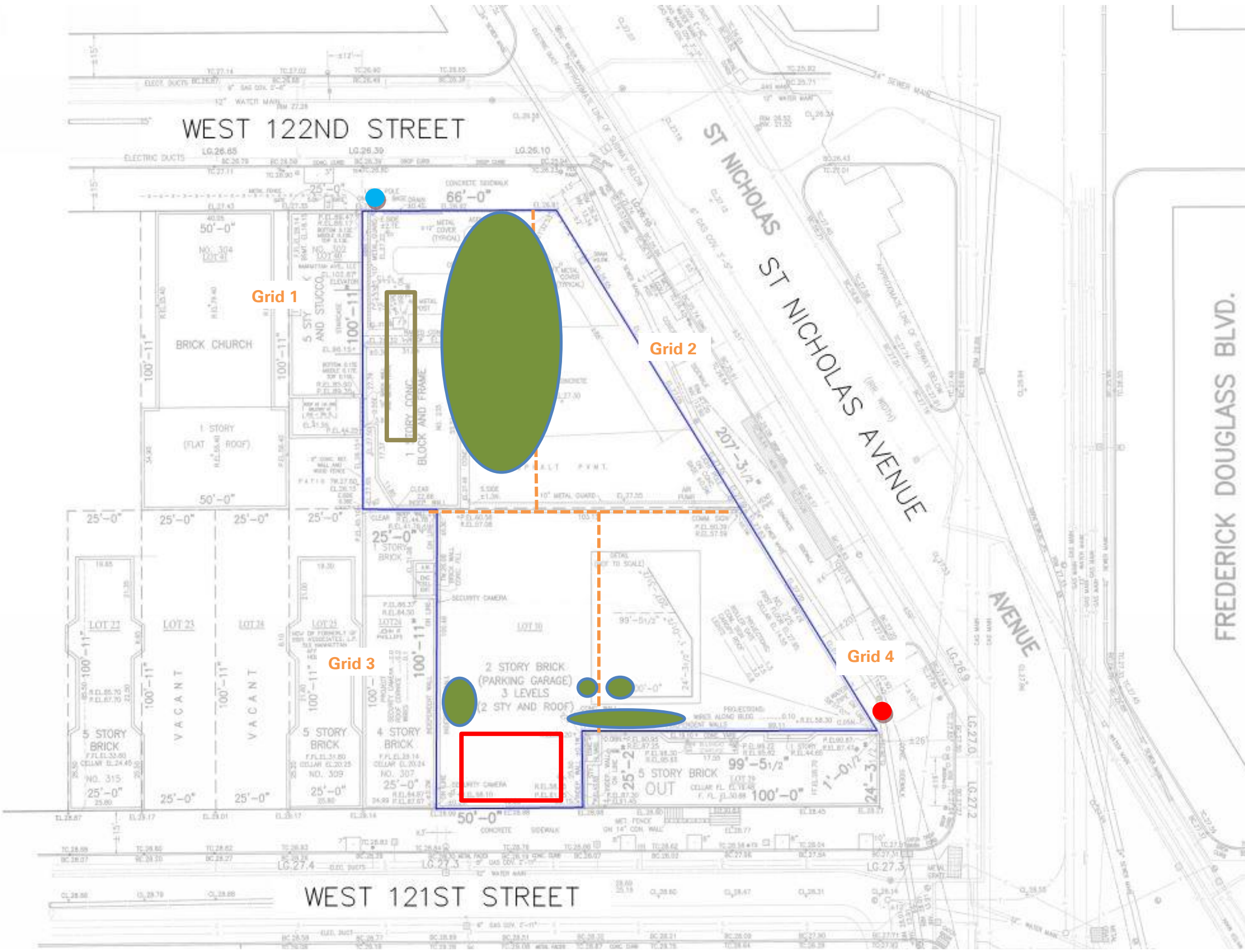


Photo Log

Photo 1:

View of Rise excavating soil in southern portion of Grid 3 (16-21), facing north.



Photo 2:

View of Uriel Trucking importing $\frac{3}{4}$ " clean stone, facing southeast.



Photo 3:

View of ¾" clean stone stockpile, facing east.



Photo 4:

View of ¾" clean stone stockpile, facing north.



Photo 5:

View of stockpile of excavated from Grid 3 (20-21), facing south.



Photo 6:

View of Rise installing formwork for elevator pit in southern portion of Grid 3, facing south.





ANALYTICAL REPORT

Lab Number:	L1914743
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND STREET
Project Number:	170500202
Report Date:	04/15/19

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: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1914743-01	REUSE04_GRAB01	SOIL	NY, NY	04/11/19 12:30	04/11/19
L1914743-02	REUSE04_COMP01	SOIL	NY, NY	04/11/19 12:35	04/11/19

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Case Narrative

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

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

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

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

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

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

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

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

The WG1225834-12 Method Blank, associated with L1914743-01, has a concentration above the reporting limit for bromomethane. Since the sample was non-detect to the RL for this target analyte, no further actions were taken. The results of the original analysis are reported.

Total Metals

L1914743-02: 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 WG1226074-1 Method Blank, associated with L1914743-02, has concentrations above the reporting limits for calcium and iron. Since the associated sample concentrations are greater than 10x the blank concentration for this analyte, no corrective action is required.

Cyanide, Total

The WG1225893-2/-3 LCS/LCSD recoveries (54%/56%), associated with L1914743-02, are 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:

 Amita Naik

Title: Technical Director/Representative

Date: 04/15/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND STREET**Lab Number:** L1914743**Project Number:** 170500202**Report Date:** 04/15/19**SAMPLE RESULTS**

Lab ID: L1914743-01
 Client ID: REUSE04_GRAB01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:30
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8260C
 Analytical Date: 04/14/19 19:11
 Analyst: MV
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.0	3.2	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.20	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.18	1
Dibromochloromethane	ND		ug/kg	1.4	0.20	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.38	1
Tetrachloroethene	ND		ug/kg	0.70	0.28	1
Chlorobenzene	ND		ug/kg	0.70	0.18	1
Trichlorofluoromethane	ND		ug/kg	5.6	0.98	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.36	1
1,1,1-Trichloroethane	ND		ug/kg	0.70	0.24	1
Bromodichloromethane	ND		ug/kg	0.70	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.70	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.70	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.70	0.22	1
Bromoform	ND		ug/kg	5.6	0.35	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.70	0.23	1
Benzene	ND		ug/kg	0.70	0.23	1
Toluene	ND		ug/kg	1.4	0.76	1
Ethylbenzene	ND		ug/kg	1.4	0.20	1
Chloromethane	ND		ug/kg	5.6	1.3	1
Bromomethane	ND		ug/kg	2.8	0.82	1
Vinyl chloride	ND		ug/kg	1.4	0.47	1
Chloroethane	ND		ug/kg	2.8	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.34	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1914743**Project Number:** 170500202**Report Date:** 04/15/19**SAMPLE RESULTS**

Lab ID: L1914743-01
Client ID: REUSE04_GRAB01
Sample Location: NY, NY

Date Collected: 04/11/19 12:30
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.70	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.8	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.8	0.21	1
1,4-Dichlorobenzene	ND		ug/kg	2.8	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.8	0.28	1
p/m-Xylene	ND		ug/kg	2.8	0.79	1
o-Xylene	ND		ug/kg	1.4	0.41	1
Xylenes, Total	ND		ug/kg	1.4	0.41	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.25	1
Dibromomethane	ND		ug/kg	2.8	0.34	1
Styrene	ND		ug/kg	1.4	0.28	1
Dichlorodifluoromethane	ND		ug/kg	14	1.3	1
Acetone	41		ug/kg	14	6.8	1
Carbon disulfide	ND		ug/kg	14	6.4	1
2-Butanone	ND		ug/kg	14	3.1	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.8	0.18	1
2-Hexanone	ND		ug/kg	14	1.7	1
Bromochloromethane	ND		ug/kg	2.8	0.29	1
2,2-Dichloropropane	ND		ug/kg	2.8	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.39	1
1,3-Dichloropropane	ND		ug/kg	2.8	0.24	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.70	0.18	1
Bromobenzene	ND		ug/kg	2.8	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.24	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.8	0.17	1
o-Chlorotoluene	ND		ug/kg	2.8	0.27	1
p-Chlorotoluene	ND		ug/kg	2.8	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.2	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.6	0.24	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.6	0.92	1
Acrylonitrile	ND		ug/kg	5.6	1.6	1
Tert-Butyl Alcohol	12	J	ug/kg	28	7.2	1

Project Name: 300 WEST 122ND STREET**Lab Number:** L1914743**Project Number:** 170500202**Report Date:** 04/15/19**SAMPLE RESULTS**

Lab ID: L1914743-01
 Client ID: REUSE04_GRAB01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:30
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.8	0.45	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.8	0.38	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.8	0.27	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.8	0.47	1
Methyl Acetate	ND		ug/kg	5.6	1.3	1
Acrolein	ND		ug/kg	35	7.9	1
Cyclohexane	ND		ug/kg	14	0.76	1
1,4-Dioxane	ND		ug/kg	110	49.	1
Freon-113	ND		ug/kg	5.6	0.98	1
p-Diethylbenzene	ND		ug/kg	2.8	0.25	1
p-Ethyltoluene	ND		ug/kg	2.8	0.54	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.8	0.27	1
Ethyl ether	ND		ug/kg	2.8	0.48	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.0	2.0	1
Methyl cyclohexane	ND		ug/kg	5.6	0.85	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	111		70-130

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/14/19 16:39
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	2.0		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/14/19 16:39
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/14/19 16:39
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/14/19 16:39
 Analyst: AD

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01 Batch: WG1225834-12					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	106		70-130

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
Methylene chloride	78		81		70-130	4		30
1,1-Dichloroethane	90		92		70-130	2		30
Chloroform	94		95		70-130	1		30
Carbon tetrachloride	99		100		70-130	1		30
1,2-Dichloropropane	86		86		70-130	0		30
Dibromochloromethane	92		93		70-130	1		30
1,1,2-Trichloroethane	88		89		70-130	1		30
Tetrachloroethene	87		86		70-130	1		30
Chlorobenzene	84		87		70-130	4		30
Trichlorofluoromethane	103		102		70-139	1		30
1,2-Dichloroethane	98		100		70-130	2		30
1,1,1-Trichloroethane	96		97		70-130	1		30
Bromodichloromethane	93		94		70-130	1		30
trans-1,3-Dichloropropene	92		94		70-130	2		30
cis-1,3-Dichloropropene	87		87		70-130	0		30
1,1-Dichloropropene	87		87		70-130	0		30
Bromoform	92		93		70-130	1		30
1,1,2,2-Tetrachloroethane	84		85		70-130	1		30
Benzene	84		84		70-130	0		30
Toluene	86		87		70-130	1		30
Ethylbenzene	87		88		70-130	1		30
Chloromethane	77		77		52-130	0		30
Bromomethane	139		138		57-147	1		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
Vinyl chloride	83		82		67-130	1		30
Chloroethane	96		92		50-151	4		30
1,1-Dichloroethene	81		83		65-135	2		30
trans-1,2-Dichloroethene	84		85		70-130	1		30
Trichloroethene	83		84		70-130	1		30
1,2-Dichlorobenzene	86		85		70-130	1		30
1,3-Dichlorobenzene	84		86		70-130	2		30
1,4-Dichlorobenzene	84		84		70-130	0		30
Methyl tert butyl ether	93		93		66-130	0		30
p/m-Xylene	84		85		70-130	1		30
o-Xylene	85		86		70-130	1		30
cis-1,2-Dichloroethene	84		86		70-130	2		30
Dibromomethane	90		91		70-130	1		30
Styrene	83		85		70-130	2		30
Dichlorodifluoromethane	69		69		30-146	0		30
Acetone	116		103		54-140	12		30
Carbon disulfide	82		81		59-130	1		30
2-Butanone	91		95		70-130	4		30
Vinyl acetate	93		94		70-130	1		30
4-Methyl-2-pentanone	88		88		70-130	0		30
1,2,3-Trichloropropane	91		91		68-130	0		30
2-Hexanone	88		88		70-130	0		30
Bromochloromethane	88		88		70-130	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
2,2-Dichloropropane	96		96		70-130	0		30
1,2-Dibromoethane	87		88		70-130	1		30
1,3-Dichloropropane	88		89		69-130	1		30
1,1,1,2-Tetrachloroethane	90		91		70-130	1		30
Bromobenzene	86		85		70-130	1		30
n-Butylbenzene	84		84		70-130	0		30
sec-Butylbenzene	83		83		70-130	0		30
tert-Butylbenzene	84		84		70-130	0		30
o-Chlorotoluene	98		100		70-130	2		30
p-Chlorotoluene	85		87		70-130	2		30
1,2-Dibromo-3-chloropropane	87		88		68-130	1		30
Hexachlorobutadiene	87		86		67-130	1		30
Isopropylbenzene	85		85		70-130	0		30
p-Isopropyltoluene	84		84		70-130	0		30
Naphthalene	84		84		70-130	0		30
Acrylonitrile	92		95		70-130	3		30
Tert-Butyl Alcohol	94		94		70-130	0		30
n-Propylbenzene	84		85		70-130	1		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	86		86		70-130	0		30
1,3,5-Trimethylbenzene	85		86		70-130	1		30
1,2,4-Trimethylbenzene	85		85		70-130	0		30
Methyl Acetate	88		88		51-146	0		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01 Batch: WG1225834-10 WG1225834-11								
Acrolein	89		88		70-130	1		30
Cyclohexane	80		82		59-142	2		30
1,4-Dioxane	92		95		65-136	3		30
Freon-113	86		87		50-139	1		30
p-Diethylbenzene	82		82		70-130	0		30
p-Ethyltoluene	85		85		70-130	0		30
1,2,4,5-Tetramethylbenzene	83		82		70-130	1		30
Ethyl ether	87		89		67-130	2		30
trans-1,4-Dichloro-2-butene	93		94		70-130	1		30
Methyl cyclohexane	79		80		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	118		118		70-130
Toluene-d8	102		104		70-130
4-Bromofluorobenzene	102		101		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND STREET**Lab Number:** L1914743**Project Number:** 170500202**Report Date:** 04/15/19**SAMPLE RESULTS**

Lab ID: L1914743-02
 Client ID: REUSE04_COMP01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:35
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil
 Analytical Method: 1,8270D
 Analytical Date: 04/14/19 15:02
 Analyst: SZ
 Percent Solids: 93%

Extraction Method: EPA 3546
 Extraction Date: 04/13/19 00:02

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	1
1,2-Dichlorobenzene	ND		ug/kg	180	31.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	30.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	46.	1
2,4-Dinitrotoluene	ND		ug/kg	180	35.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	62	J	ug/kg	100	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	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	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	60.	1
Butyl benzyl phthalate	ND		ug/kg	180	44.	1

Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
 Client ID: REUSE04_COMP01
 Sample Location: NY, NY

Date Collected: 04/11/19 12:35
 Date Received: 04/11/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	40	J	ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	45	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	32	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	20	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	26	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	58	J	ug/kg	100	17.	1
Biphenyl	ND		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	72.	1
Dibenzofuran	ND		ug/kg	180	16.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	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	240	71.	1
2,4-Dinitrophenol	ND		ug/kg	840	82.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	84.	1
Pentachlorophenol	ND		ug/kg	140	38.	1

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1
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
Atrazine	ND		ug/kg	140	61.	1
Benzaldehyde	ND		ug/kg	230	47.	1
Caprolactam	ND		ug/kg	180	53.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	84		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	90		10-136
4-Terphenyl-d14	73		18-120

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/19 11:36
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/12/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1225813-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	550	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	100	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	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
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	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270D
 Analytical Date: 04/14/19 11:36
 Analyst: SZ

Extraction Method: EPA 3546
 Extraction Date: 04/12/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1225813-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	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	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/14/19 11:36
Analyst: SZ

Extraction Method: EPA 3546
Extraction Date: 04/12/19 10:00

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 02 Batch: WG1225813-1					
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	79		18-120

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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: WG1225813-2 WG1225813-3								
Acenaphthene	67		81		31-137	19		50
Benzidine	24		23		10-66	4		50
1,2,4-Trichlorobenzene	60		72		38-107	18		50
Hexachlorobenzene	67		83		40-140	21		50
Bis(2-chloroethyl)ether	65		78		40-140	18		50
2-Chloronaphthalene	68		83		40-140	20		50
1,2-Dichlorobenzene	61		72		40-140	17		50
1,3-Dichlorobenzene	60		72		40-140	18		50
1,4-Dichlorobenzene	61		73		28-104	18		50
3,3'-Dichlorobenzidine	47		50		40-140	6		50
2,4-Dinitrotoluene	77		92		40-132	18		50
2,6-Dinitrotoluene	73		88		40-140	19		50
Azobenzene	79		96		40-140	19		50
Fluoranthene	66		80		40-140	19		50
4-Chlorophenyl phenyl ether	67		83		40-140	21		50
4-Bromophenyl phenyl ether	69		85		40-140	21		50
Bis(2-chloroisopropyl)ether	72		86		40-140	18		50
Bis(2-chloroethoxy)methane	67		83		40-117	21		50
Hexachlorobutadiene	65		79		40-140	19		50
Hexachlorocyclopentadiene	54		67		40-140	21		50
Hexachloroethane	64		76		40-140	17		50
Isophorone	68		82		40-140	19		50
Naphthalene	63		75		40-140	17		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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: WG1225813-2 WG1225813-3								
Nitrobenzene	70		83		40-140	17		50
NDPA/DPA	72		86		36-157	18		50
n-Nitrosodi-n-propylamine	70		86		32-121	21		50
Bis(2-ethylhexyl)phthalate	79		96		40-140	19		50
Butyl benzyl phthalate	70		86		40-140	21		50
Di-n-butylphthalate	68		82		40-140	19		50
Di-n-octylphthalate	83		101		40-140	20		50
Diethyl phthalate	73		89		40-140	20		50
Dimethyl phthalate	78		94		40-140	19		50
Benzo(a)anthracene	77		90		40-140	16		50
Benzo(a)pyrene	82		98		40-140	18		50
Benzo(b)fluoranthene	80		93		40-140	15		50
Benzo(k)fluoranthene	75		91		40-140	19		50
Chrysene	73		87		40-140	18		50
Acenaphthylene	72		87		40-140	19		50
Anthracene	65		76		40-140	16		50
Benzo(ghi)perylene	66		78		40-140	17		50
Fluorene	72		86		40-140	18		50
Phenanthrene	64		77		40-140	18		50
Dibenzo(a,h)anthracene	64		76		40-140	17		50
Indeno(1,2,3-cd)pyrene	68		82		40-140	19		50
Pyrene	65		79		35-142	19		50
Biphenyl	68		82		54-104	19		50

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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: WG1225813-2 WG1225813-3								
4-Chloroaniline	86		95		40-140	10		50
2-Nitroaniline	71		88		47-134	21		50
3-Nitroaniline	60		67		26-129	11		50
4-Nitroaniline	73		88		41-125	19		50
Dibenzofuran	71		85		40-140	18		50
2-Methylnaphthalene	63		76		40-140	19		50
1,2,4,5-Tetrachlorobenzene	69		86		40-117	22		50
Acetophenone	73		88		14-144	19		50
n-Nitrosodimethylamine	64		78		22-100	20		50
2,4,6-Trichlorophenol	74		89		30-130	18		50
p-Chloro-m-cresol	74		90		26-103	20		50
2-Chlorophenol	64		76		25-102	17		50
2,4-Dichlorophenol	67		86		30-130	25		50
2,4-Dimethylphenol	70		85		30-130	19		50
2-Nitrophenol	64		77		30-130	18		50
4-Nitrophenol	86		107		11-114	22		50
2,4-Dinitrophenol	54		66		4-130	20		50
4,6-Dinitro-o-cresol	74		90		10-130	20		50
Pentachlorophenol	66		86		17-109	26		50
Phenol	66		82		26-90	22		50
2-Methylphenol	65		80		30-130	21		50
3-Methylphenol/4-Methylphenol	68		84		30-130	21		50
2,4,5-Trichlorophenol	72		94		30-130	27		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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: WG1225813-2 WG1225813-3								
Benzoic Acid	43		49		10-110	13		50
Benzyl Alcohol	75		90		40-140	18		50
Carbazole	67		80		54-128	18		50
Atrazine	84		103		40-140	20		50
Benzaldehyde	70		80		40-140	13		50
Caprolactam	94		118		15-130	23		50
2,3,4,6-Tetrachlorophenol	68		87		40-140	25		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		83		25-120
Phenol-d6	70		85		10-120
Nitrobenzene-d5	68		82		23-120
2-Fluorobiphenyl	66		80		30-120
2,4,6-Tribromophenol	72		92		10-136
4-Terphenyl-d14	62		74		18-120

PCBS

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/14/19 18:32
Analyst: HT
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/13/19 02:23
Cleanup Method: EPA 3665A
Cleanup Date: 04/14/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/14/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	34.4	3.05	1	A
Aroclor 1221	ND		ug/kg	34.4	3.44	1	A
Aroclor 1232	ND		ug/kg	34.4	7.29	1	A
Aroclor 1242	ND		ug/kg	34.4	4.63	1	A
Aroclor 1248	ND		ug/kg	34.4	5.16	1	A
Aroclor 1254	ND		ug/kg	34.4	3.76	1	A
Aroclor 1260	ND		ug/kg	34.4	6.35	1	A
Aroclor 1262	ND		ug/kg	34.4	4.36	1	A
Aroclor 1268	ND		ug/kg	34.4	3.56	1	A
PCBs, Total	ND		ug/kg	34.4	3.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	76		30-150	B

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 04/13/19 13:16
Analyst: HT

Extraction Method: EPA 3546
Extraction Date: 04/12/19 09:52
Cleanup Method: EPA 3665A
Cleanup Date: 04/12/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1225809-1						
Aroclor 1016	ND		ug/kg	32.3	2.87	A
Aroclor 1221	ND		ug/kg	32.3	3.24	A
Aroclor 1232	ND		ug/kg	32.3	6.85	A
Aroclor 1242	ND		ug/kg	32.3	4.36	A
Aroclor 1248	ND		ug/kg	32.3	4.85	A
Aroclor 1254	ND		ug/kg	32.3	3.54	A
Aroclor 1260	ND		ug/kg	32.3	5.97	A
Aroclor 1262	ND		ug/kg	32.3	4.10	A
Aroclor 1268	ND		ug/kg	32.3	3.35	A
PCBs, Total	ND		ug/kg	32.3	2.87	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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: WG1225809-2 WG1225809-3									
Aroclor 1016	85		82		40-140	4		50	A
Aroclor 1260	66		66		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		78		30-150	A
Decachlorobiphenyl	58		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		68		30-150	B
Decachlorobiphenyl	62		58		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/14/19 19:27
Analyst: DGM
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/12/19 22:21
Cleanup Method: EPA 3620B
Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.68	0.330	1	A
Lindane	ND		ug/kg	0.701	0.314	1	A
Alpha-BHC	ND		ug/kg	0.701	0.199	1	A
Beta-BHC	ND		ug/kg	1.68	0.638	1	A
Heptachlor	ND		ug/kg	0.842	0.377	1	A
Aldrin	ND		ug/kg	1.68	0.593	1	A
Heptachlor epoxide	ND		ug/kg	3.16	0.947	1	A
Endrin	ND		ug/kg	0.701	0.288	1	A
Endrin aldehyde	ND		ug/kg	2.10	0.736	1	A
Endrin ketone	ND		ug/kg	1.68	0.433	1	A
Dieldrin	ND		ug/kg	1.05	0.526	1	A
4,4'-DDE	ND		ug/kg	1.68	0.389	1	A
4,4'-DDD	ND		ug/kg	1.68	0.600	1	A
4,4'-DDT	ND		ug/kg	3.16	1.35	1	A
Endosulfan I	ND		ug/kg	1.68	0.398	1	A
Endosulfan II	ND		ug/kg	1.68	0.562	1	A
Endosulfan sulfate	ND		ug/kg	0.701	0.334	1	A
Methoxychlor	ND		ug/kg	3.16	0.982	1	A
Toxaphene	ND		ug/kg	31.6	8.84	1	A
cis-Chlordane	ND		ug/kg	2.10	0.586	1	A
trans-Chlordane	ND		ug/kg	2.10	0.556	1	A
Chlordane	ND		ug/kg	13.7	5.58	1	A

Project Name: 300 WEST 122ND STREET**Lab Number:** L1914743**Project Number:** 170500202**Report Date:** 04/15/19**SAMPLE RESULTS****Lab ID:** L1914743-02**Date Collected:** 04/11/19 12:35**Client ID:** REUSE04_COMP01**Date Received:** 04/11/19**Sample Location:** NY, NY**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	84		30-150	B
Decachlorobiphenyl	82		30-150	B
2,4,5,6-Tetrachloro-m-xylene	88		30-150	A
Decachlorobiphenyl	75		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/14/19 17:04
Analyst: DGM
Percent Solids: 93%
Methylation Date: 04/13/19 20:02

Extraction Method: EPA 8151A
Extraction Date: 04/13/19 02:57

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	84		30-150	A
DCAA	74		30-150	B

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/14/19 17:32
 Analyst: DGM

Extraction Method: EPA 3546
 Extraction Date: 04/12/19 22:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1226036-1						
Delta-BHC	ND		ug/kg	1.55	0.303	A
Lindane	ND		ug/kg	0.645	0.288	A
Alpha-BHC	ND		ug/kg	0.645	0.183	A
Beta-BHC	ND		ug/kg	1.55	0.587	A
Heptachlor	ND		ug/kg	0.774	0.347	A
Aldrin	ND		ug/kg	1.55	0.545	A
Heptachlor epoxide	ND		ug/kg	2.90	0.870	A
Endrin	ND		ug/kg	0.645	0.264	A
Endrin aldehyde	ND		ug/kg	1.93	0.677	A
Endrin ketone	ND		ug/kg	1.55	0.398	A
Dieldrin	ND		ug/kg	0.967	0.484	A
4,4'-DDE	ND		ug/kg	1.55	0.358	A
4,4'-DDD	ND		ug/kg	1.55	0.552	A
4,4'-DDT	ND		ug/kg	2.90	1.24	A
Endosulfan I	ND		ug/kg	1.55	0.366	A
Endosulfan II	ND		ug/kg	1.55	0.517	A
Endosulfan sulfate	ND		ug/kg	0.645	0.307	A
Methoxychlor	ND		ug/kg	2.90	0.903	A
Toxaphene	ND		ug/kg	29.0	8.12	A
cis-Chlordane	ND		ug/kg	1.93	0.539	A
trans-Chlordane	ND		ug/kg	1.93	0.511	A
Chlordane	ND		ug/kg	12.6	5.12	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/14/19 17:32
 Analyst: DGM

Extraction Method: EPA 3546
 Extraction Date: 04/12/19 22:21
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/13/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 02 Batch: WG1226036-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	101		30-150	B
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	84		30-150	A

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8151A
Analytical Date: 04/14/19 19:10
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/13/19 02:57

Methylation Date: 04/13/19 20:02

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 02 Batch: WG1226062-1						
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	75		30-150	A
DCAA	61		30-150	B

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1226036-2 WG1226036-3									
Delta-BHC	105		107		30-150	2		30	A
Lindane	100		104		30-150	4		30	A
Alpha-BHC	104		107		30-150	3		30	A
Beta-BHC	94		91		30-150	3		30	A
Heptachlor	97		102		30-150	5		30	A
Aldrin	99		107		30-150	8		30	A
Heptachlor epoxide	103		104		30-150	1		30	A
Endrin	107		110		30-150	3		30	A
Endrin aldehyde	71		82		30-150	14		30	A
Endrin ketone	92		96		30-150	4		30	A
Dieldrin	105		107		30-150	2		30	A
4,4'-DDE	97		105		30-150	8		30	A
4,4'-DDD	95		100		30-150	5		30	A
4,4'-DDT	109		112		30-150	3		30	A
Endosulfan I	91		96		30-150	5		30	A
Endosulfan II	93		96		30-150	3		30	A
Endosulfan sulfate	77		86		30-150	11		30	A
Methoxychlor	94		99		30-150	5		30	A
cis-Chlordane	84		94		30-150	11		30	A
trans-Chlordane	81		93		30-150	14		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 02 Batch: WG1226036-2 WG1226036-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		87		30-150	B
Decachlorobiphenyl	98		113		30-150	B
2,4,5,6-Tetrachloro-m-xylene	82		84		30-150	A
Decachlorobiphenyl	76		90		30-150	A

Lab Control Sample Analysis**Batch Quality Control****Project Name:** 300 WEST 122ND STREET**Project Number:** 170500202**Lab Number:** L1914743**Report Date:** 04/15/19

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: WG1226062-2 WG1226062-3									
2,4-D	77		81		30-150	5		30	A
2,4,5-T	68		71		30-150	4		30	A
2,4,5-TP (Silvex)	68		75		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	72		80		30-150	A
DCAA	64		70		30-150	B

METALS

Project Name: 300 WEST 122ND STREET**Lab Number:** L1914743**Project Number:** 170500202**Report Date:** 04/15/19**SAMPLE RESULTS**

Lab ID: L1914743-02

Date Collected: 04/11/19 12:35

Client ID: REUSE04_COMP01

Date Received: 04/11/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1750		mg/kg	8.45	2.28	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Antimony, Total	ND		mg/kg	4.23	0.321	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Arsenic, Total	0.313	J	mg/kg	0.845	0.176	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Barium, Total	18.1		mg/kg	0.845	0.147	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Beryllium, Total	0.093	J	mg/kg	0.423	0.028	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.845	0.083	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Calcium, Total	1300		mg/kg	8.45	2.96	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Chromium, Total	5.10		mg/kg	0.845	0.081	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Cobalt, Total	1.86		mg/kg	1.69	0.140	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Copper, Total	6.89		mg/kg	0.845	0.218	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Iron, Total	3730		mg/kg	4.23	0.763	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Lead, Total	7.24		mg/kg	4.23	0.226	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Magnesium, Total	1030		mg/kg	8.45	1.30	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Manganese, Total	173		mg/kg	0.845	0.134	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Mercury, Total	ND		mg/kg	0.068	0.014	1	04/13/19 06:00	04/15/19 10:31	EPA 7471B	1,7471B	GD
Nickel, Total	5.27		mg/kg	2.11	0.204	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Potassium, Total	318		mg/kg	211	12.2	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Selenium, Total	ND		mg/kg	1.69	0.218	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Silver, Total	ND		mg/kg	0.845	0.239	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Sodium, Total	86.6	J	mg/kg	169	2.66	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Thallium, Total	ND		mg/kg	1.69	0.266	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Vanadium, Total	5.75		mg/kg	0.845	0.172	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
Zinc, Total	11.1		mg/kg	4.23	0.248	2	04/13/19 04:45	04/15/19 10:57	EPA 3050B	1,6010D	LC
General Chemistry - Mansfield Lab											
Chromium, Trivalent	5.1		mg/kg	0.86	0.86	1		04/15/19 11:27	NA	107,-	



Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

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: WG1226074-1										
Aluminum, Total	1.12	J	mg/kg	4.00	1.08	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Barium, Total	ND		mg/kg	0.400	0.070	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Calcium, Total	6.12		mg/kg	4.00	1.40	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Chromium, Total	0.112	J	mg/kg	0.400	0.038	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Cobalt, Total	0.088	J	mg/kg	0.800	0.066	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Copper, Total	ND		mg/kg	0.400	0.103	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Iron, Total	2.55		mg/kg	2.00	0.361	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Lead, Total	ND		mg/kg	2.00	0.107	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Manganese, Total	0.080	J	mg/kg	0.400	0.064	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Nickel, Total	0.460	J	mg/kg	1.00	0.097	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Potassium, Total	ND		mg/kg	100	5.76	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Silver, Total	ND		mg/kg	0.400	0.113	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Sodium, Total	2.58	J	mg/kg	80.0	1.26	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/13/19 04:45	04/15/19 10:23	1,6010D	LC

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02 Batch: WG1226085-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/13/19 06:00	04/15/19 10:27	1,7471B	GD



Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1226074-2 SRM Lot Number: D101-540								
Aluminum, Total	65		-		50-151	-		
Antimony, Total	127		-		3-196	-		
Arsenic, Total	97		-		83-117	-		
Barium, Total	89		-		83-118	-		
Beryllium, Total	88		-		83-117	-		
Cadmium, Total	90		-		83-117	-		
Calcium, Total	87		-		81-119	-		
Chromium, Total	89		-		81-118	-		
Cobalt, Total	94		-		84-116	-		
Copper, Total	90		-		83-116	-		
Iron, Total	82		-		62-138	-		
Lead, Total	94		-		83-117	-		
Magnesium, Total	79		-		76-124	-		
Manganese, Total	92		-		82-118	-		
Nickel, Total	96		-		82-117	-		
Potassium, Total	79		-		71-130	-		
Selenium, Total	99		-		79-121	-		
Silver, Total	92		-		80-120	-		
Sodium, Total	102		-		72-127	-		
Thallium, Total	92		-		81-119	-		
Vanadium, Total	88		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1226074-2 SRM Lot Number: D101-540					
Zinc, Total	92	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 02 Batch: WG1226085-2 SRM Lot Number: D101-540					
Mercury, Total	123	-	65-135	-	

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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): 02 QC Batch ID: WG1226074-3 QC Sample: L1914347-01 Client ID: MS Sample												
Aluminum, Total	10000	174	9990	0	Q	-	-		75-125	-		20
Antimony, Total	ND	43.6	31.8	73	Q	-	-		75-125	-		20
Arsenic, Total	14.7	10.4	24.8	97		-	-		75-125	-		20
Barium, Total	77.3	174	225	85		-	-		75-125	-		20
Beryllium, Total	0.470	4.36	4.03	82		-	-		75-125	-		20
Cadmium, Total	ND	4.44	3.90	88		-	-		75-125	-		20
Calcium, Total	19500	871	20400	103		-	-		75-125	-		20
Chromium, Total	36.0	17.4	45.7	56	Q	-	-		75-125	-		20
Cobalt, Total	10.7	43.6	45.6	80		-	-		75-125	-		20
Copper, Total	61.5	21.8	65.8	20	Q	-	-		75-125	-		20
Iron, Total	19200	87.1	17600	0	Q	-	-		75-125	-		20
Lead, Total	26.7	44.4	59.4	74	Q	-	-		75-125	-		20
Magnesium, Total	6370	871	6050	0	Q	-	-		75-125	-		20
Manganese, Total	225	43.6	248	53	Q	-	-		75-125	-		20
Nickel, Total	25.0	43.6	57.7	75		-	-		75-125	-		20
Potassium, Total	607	871	1490	101		-	-		75-125	-		20
Selenium, Total	1.42J	10.4	10.9	104		-	-		75-125	-		20
Silver, Total	ND	26.1	24.5	94		-	-		75-125	-		20
Sodium, Total	14900	871	16300	161	Q	-	-		75-125	-		20
Thallium, Total	ND	10.4	8.13	78		-	-		75-125	-		20
Vanadium, Total	50.4	43.6	83.0	75		-	-		75-125	-		20

Matrix Spike Analysis Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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: WG1226074-3 QC Sample: L1914347-01 Client ID: MS Sample									
Zinc, Total	90.3	43.6	117	61	Q	-	-	75-125	- 20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226085-3 QC Sample: L1914743-02 Client ID: REUSE04_COMP01									
Mercury, Total	ND	0.135	0.163	120	-	-	-	80-120	- 20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1914743
Report Date: 04/15/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226074-4 QC Sample: L1914347-01 Client ID: DUP Sample						
Calcium, Total	19500	18600	mg/kg	5		20
Magnesium, Total	6370	6600	mg/kg	4		20
Sodium, Total	14900	13800	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 02 QC Batch ID: WG1226085-4 QC Sample: L1914743-02 Client ID: REUSE04_COMP01						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND STREET**Project Number:** 170500202**Lab Number:** L1914743**Report Date:** 04/15/19**SAMPLE RESULTS****Lab ID:** L1914743-01**Client ID:** REUSE04_GRAB01**Sample Location:** NY, NY**Date Collected:** 04/11/19 12:30**Date Received:** 04/11/19**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	77.2		%	0.100	NA	1	-	04/12/19 13:43	121,2540G	RI



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

SAMPLE RESULTS

Lab ID: L1914743-02
Client ID: REUSE04_COMP01
Sample Location: NY, NY

Date Collected: 04/11/19 12:35
Date Received: 04/11/19
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	93.0		%	0.100	NA	1	-	04/13/19 04:12	121,2540G	YA
Cyanide, Total	ND		mg/kg	0.99	0.21	1	04/12/19 14:00	04/15/19 12:58	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.860	0.172	1	04/15/19 03:06	04/15/19 11:27	1,7196A	NH



Project Name: 300 WEST 122ND STREET

Lab Number: L1914743

Project Number: 170500202

Report Date: 04/15/19

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): 02 Batch: WG1225893-1										
Cyanide, Total	ND		mg/kg	0.83	0.18	1	04/12/19 14:00	04/15/19 12:48	1,9010C/9012B	LH
General Chemistry - Westborough Lab for sample(s): 02 Batch: WG1226343-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/15/19 03:06	04/15/19 11:27	1,7196A	NH

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1225893-2 WG1225893-3								
Cyanide, Total	54	Q	56	Q	80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 02 Batch: WG1226343-2								
Chromium, Hexavalent	97		-		80-120	-		20

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND STREET

Project Number: 170500202

Lab Number: L1914743

Report Date: 04/15/19

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): 02 QC Batch ID: WG1225893-4 WG1225893-5 QC Sample: L1914886-01 Client ID: MS Sample												
Cyanide, Total	ND	10	9.5	92		9.4	91		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1226343-4 QC Sample: L1914743-02 Client ID: REUSE04_COMP01												
Chromium, Hexavalent	ND	886	953	108		-	-		75-125	-		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Duplicate Analysis
Batch Quality Control

Lab Number: L1914743
Report Date: 04/15/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1225896-1 QC Sample: L1914943-01 Client ID: DUP Sample						
Solids, Total	75.7	75.5	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1226037-1 QC Sample: L1905555-16 Client ID: DUP Sample						
Solids, Total	88.0	88.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1226343-6 QC Sample: L1914743-02 Client ID: REUSE04_COMP01						
Chromium, Hexavalent	ND	0.204J	mg/kg	NC		20

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Serial_No: 04151915:32
Lab Number: L1914743
Report Date: 04/15/19

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(*)
L1914743-01A	Vial MeOH preserved	A	NA		4.7	Y	Absent		NYTCL-8260HLW(14)
L1914743-01B	Vial water preserved	A	NA		4.7	Y	Absent	12-APR-19 10:17	NYTCL-8260HLW(14)
L1914743-01C	Vial water preserved	A	NA		4.7	Y	Absent	12-APR-19 10:17	NYTCL-8260HLW(14)
L1914743-01D	Plastic 2oz unpreserved for TS	A	NA		4.7	Y	Absent		TS(7)
L1914743-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.7	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),TRICR-CALC(30),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)
L1914743-02B	Glass 120ml/4oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1914743-02C	Glass 500ml/16oz unpreserved	A	NA		4.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND STREET
Project Number: 170500202

Lab Number: L1914743
Report Date: 04/15/19

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.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 12

Department: **Quality Assurance**

Published Date: 10/9/2018 4:58:19 PM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

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

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

 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 <u>1</u> of <u>1</u>		Date Rec'd in Lab <u>4/11/19</u>		ALPHA Job # <u>L1914743</u>																																																																																																																																																																																																																																						
		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 Project Name: <u>300 West 122nd Street</u> Project Location: <u>NY, NY</u> Project # <u>170500202</u> (Use Project name as Project #) ☐		Deliverables ☐ ASP-A ☐ ASP-B ☐ EQUIS (1 File) ☐ EQUIS (4 File) ☐ Other		Billing Information ☒ Same as Client Info PO #																																																																																																																																																																																																																																				
Client Information Client: <u>LANGAN, OPC</u> Address: <u>21 Penn Plaza, 360 W. 31st St.</u> <u>Fir. 8, NY, NY 10001</u> Phone: <u>212-479-5400</u> Fax: <u></u> Email: <u>G.WYKA@LANGAN.COM</u>		Project Manager: <u>Greg Wyka</u> ALPHAQuote #: <u></u> Turn-Around Time Standard ☒ Due Date: <u></u> Rush (only if pre approved) ☐ # of Days: <u></u>		Regulatory Requirement ☐ NY TOGS ☒ NY Part 375 ☐ AWQ Standards ☐ NY CP-51 ☐ NY Restricted Use ☒ Other <u>TCL</u> ☐ NY Unrestricted Use ☐ NYC Sewer Discharge		Disposal Site Information Please identify below location of applicable disposal facilities. Disposal Facility: ☐ NJ ☐ NY ☐ Other:																																																																																																																																																																																																																																								
These samples have been previously analyzed by Alpha ☐ Other project specific requirements/comments:		ANALYSIS Part 375/TCL VOCs SVOCs PCBs Pest/Herbicides TAL metals - tot. lead + hex tr. chromium Sample Filtration ☐ Done ☐ Lab to do Preservation ☐ Lab to do (Please Specify below) Sample Specific Comments		Total Bottles																																																																																																																																																																																																																																										
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> <th rowspan="2"></th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td rowspan="2">19743.01 02</td> <td>REUSE04-GRAB01</td> <td>4/11/19</td> <td>1230</td> <td>SOIL</td> <td>AS</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>REUSE04-COMP01</td> <td>"</td> <td>1235</td> <td>"</td> <td>"</td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials													Date	Time	19743.01 02	REUSE04-GRAB01	4/11/19	1230	SOIL	AS	X												REUSE04-COMP01	"	1235	"	"		X	X	X	X	X																																																																																																																																																																																												
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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: <u>Greg Wyka</u> <u>Paul Mayella</u>		Date/Time: <u>4/11/19 1340</u> <u>04-11-19 15:00</u> <u>4/11/19 21:00</u>		Received By: <u>Paul Mayella</u> <u>Paul Mayella</u> <u>Paul Mayella</u>		Date/Time: <u>04-11-19 1340</u> <u>4/11/19 16:00</u> <u>4/11/19 21:00</u>																																																																																																																																																																																																																																								

From: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Sent: Friday, May 03, 2019 9:28 AM
To: Julia Leung
Cc: O'Connell, Jane H (DEC); Mimi Raygorodetsky; Greg Wyka; Ashley Stappenbeck; David Yudelson; Levi Balkany; Naftali L
Subject: RE: 300 W 122nd Street C231067 - Soil Reuse Request No. 4

Julia: The Department has reviewed the request dated April 9, 2019 to reuse 20 cubic yards of soil at the Former Shell site # C231067 site. Based on the information provided, the request is hereby approved.

The proposed fill material meets the Unrestricted Use Soil Cleanup Objectives re: Appendix 5 of DER-10. Resent with a correction

Nigel N. Crawford, P.E.

Environmental Engineer 2,
Division of Environmental Remediation

New York State Department of Environmental Conservation

NYSDEC Region 2
47-40 21st Street, LIC New York 11101
P: (718) 482-7778 | F: (718) 482-6358
nigel.crawford@dec.ny.gov
www.dec.ny.gov

From: Julia Leung <JLeung@Langan.com>
Sent: Thursday, April 18, 2019 6:37 PM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Cc: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; Mimi Raygorodetsky <mraygorodetsky@langan.com>; Greg Wyka <gwyka@langan.com>; Ashley Stappenbeck <astappenbeck@langan.com>; David Yudelson <dyudelson@sprlaw.com>; Levi Balkany <Levi@happylivingdev.com>; Naftali L <naftalil@happylivingdev.com>
Subject: 300 W 122nd Street C231067 - Soil Reuse Request No. 4

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Nigel,

Please find attached a soil reuse request for the 300 W 122nd Street for your review and approval. About 20 cubic yards of on-site soil was segregated, stockpiled, and sampled for lab analysis of Part 375 parameters. The material meets Unrestricted Use SCOs. If you could please issue your approval early next week, we would greatly appreciate it.

Julia Leung
Project Engineer
Direct: 212.479.5452
Mobile: 917.892.3222

[File Sharing Link](#)

LANGAN

Phone: 212.479.5400 Fax: 212.479.5444

21 Penn Plaza

360 West 31st Street, 8th Floor

New York, NY 10001-2727

<https://protect2.fireeye.com/url?k=e23a3c72-be1c044c-e238c547-000babda0031-bf8eb6e73c1025a1&u=http://www.langan.com/>

NEW YORK NEW JERSEY CONNECTICUT PENNSYLVANIA WASHINGTON, DC
VIRGINIA WEST VIRGINIA OHIO FLORIDA TEXAS COLORADO ARIZONA CALIFORNIA
ABU DHABI ATHENS DOHA DUBAI LONDON PANAMA

A Carbon-Neutral Firm | Langan's goal is to be SAFE (Stay Accident Free Everyday)

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**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**



Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is:

Have Ecological Resources been identified?

Is this soil originating from the site?

How many cubic yards of soil will be imported/reused?

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone?

Does it contain less than 10%, by weight, material that would pass a size 80 sieve?

Is this virgin material from a permitted mine or quarry?

Is this material recycled concrete or brick from a DEC registered processing facility?

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

About 80 cubic yards of soil was excavated by Rise Development on 4/29/2019 and placed in a stockpile on poly sheeting for reuse sampling. Langan collected two grab samples and one composite sample for lab analysis consistent with NYSDEC DER-10 Appendix 5. The contractor may use this material as backfill in the southwestern portion of the site to bring the site elevation to grade. See attached figure for proposed placement areas. The proposed reuse material will be field screened, tracked and documented by Langan field staff under the supervision of the PE.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

See attached analytical data table with comparisons to the Part 375 Restricted-Use Residential SCOs. No analytes exceeded the Restricted-Use Residential SCOs.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Excavated on-site soil meeting reuse criteria specified in NYSDEC-approved RAWP

Location where fill was obtained:

300 West 122nd Street (Former Shell BCP Site No. C231067)

Identification of any state or local approvals as a fill source:

N/A

If no approvals are available, provide a brief history of the use of the property that is the fill source:

See RIR and RAWP

Provide a list of supporting documentation included with this request:

See attached Table 1, Figure 1, Alpha Lab Report L1917599, and Daily Field Report (DFR) for 4/29/2019.

The information provided on this form is accurate and complete.



Signature

4/30/2019

Date

Gregory C. Wyka

Print Name

Langan

Firm

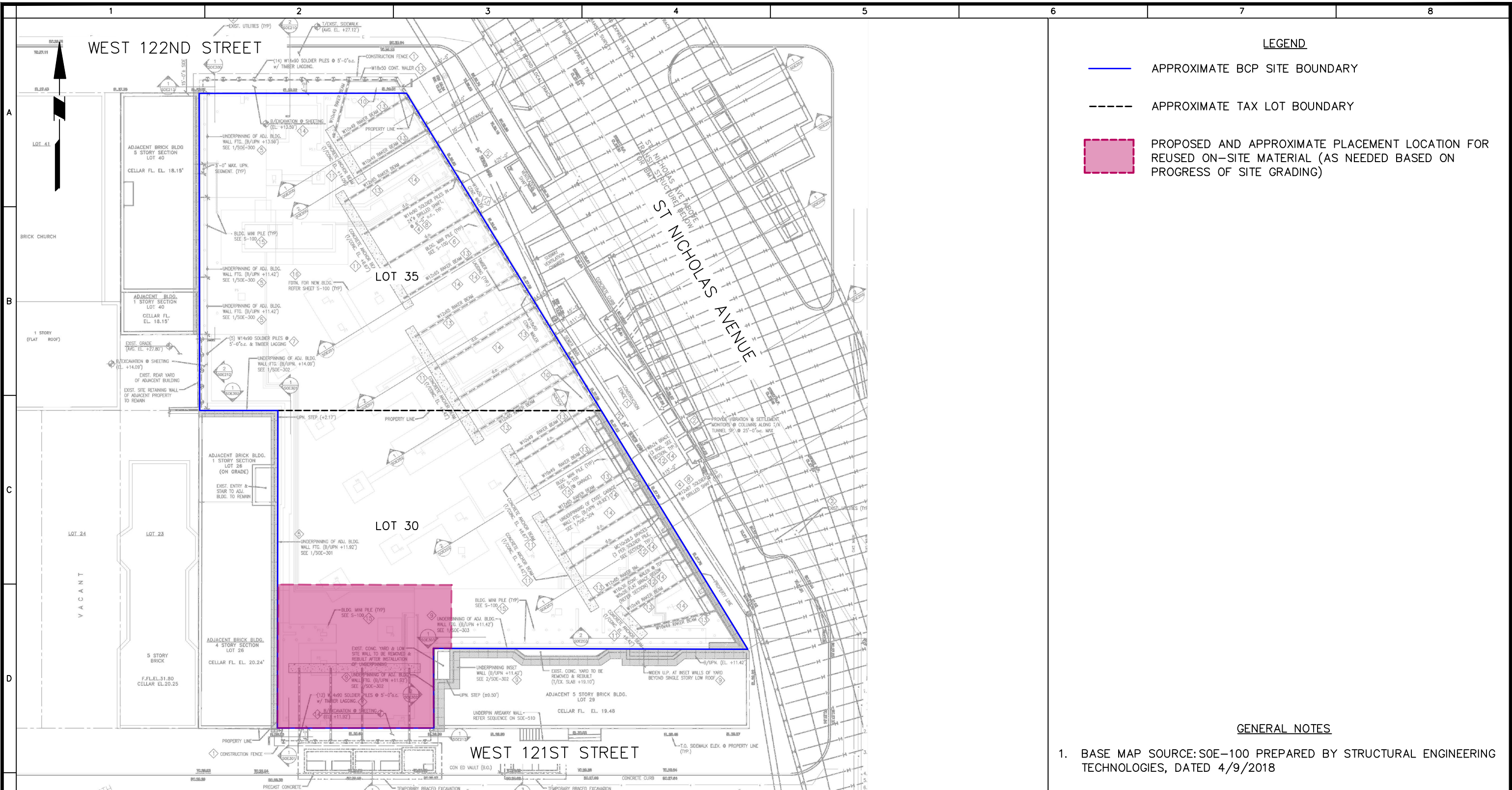
Table 1
Soil Analytical Results Summary
Materials Reuse - Grids 3 and 4 Stockpile

300 West 122nd Street
New York, New York
Langan Project No. 170500201
BCP Project No. C231067

Sample ID Laboratory Sample ID Sample Date Sample Depth Interval (feet bgs)	NYSDEC Part 375 UU SCOs	NYSDEC Part 375 RUR SCOs	REUSE05_GRAB01 L1917599-01 4/29/2019 16-20	REUSE05_GRAB02 L1917599-02 4/29/2019 16-20	REUSE05_COMP01 L1917599-03 4/29/2019 16-20
Volatile Organic Compounds (VOCs) (mg/kg)					
Acetone	0.05	100	0.028	0.014 U	NA
Chloroform	0.37	10	0.00027 J	0.0021 U	NA
Semivolatile Organic Compounds (SVOCs) (mg/kg)					
Benzo(a)anthracene	1	1	NA	NA	0.053 J
Benzo(a)pyrene	1	1	NA	NA	0.055 J
Benzo(b)fluoranthene	1	1	NA	NA	0.075 J
Chrysene	1	1	NA	NA	0.055 J
Fluoranthene	100	100	NA	NA	0.075 J
Phenanthrene	100	100	NA	NA	0.03 J
Pyrene	100	100	NA	NA	0.074 J
Polychlorinated Biphenyls (PCBs) (mg/kg)					
PCBs, Total	0.1	1	NA	NA	ND
Pesticides (mg/kg)					
trans-Chlordane	~	~	NA	NA	0.00194 JIP
Herbicides (mg/kg)					
Total Herbicides	~	~	NA	NA	ND
Inorganics (mg/kg)					
Aluminum, Total	~	~	NA	NA	1760
Antimony, Total	~	~	NA	NA	0.525 J
Arsenic, Total	13	16	NA	NA	0.364 J
Barium, Total	350	350	NA	NA	23.3
Beryllium, Total	7.2	14	NA	NA	0.102 J
Calcium, Total	~	~	NA	NA	2020
Chromium, Total	~	~	NA	NA	6.21
Chromium, Trivalent	30	36	NA	NA	6.2
Cobalt, Total	~	~	NA	NA	1.99
Copper, Total	50	270	NA	NA	10.5
Iron, Total	~	~	NA	NA	3910
Lead, Total	63	400	NA	NA	25.6
Magnesium, Total	~	~	NA	NA	930
Manganese, Total	1600	2000	NA	NA	114
Nickel, Total	30	140	NA	NA	5.53
Potassium, Total	~	~	NA	NA	386
Sodium, Total	~	~	NA	NA	46.8 J
Vanadium, Total	~	~	NA	NA	5.97
Zinc, Total	109	2200	NA	NA	15

Notes:
1. Grab and composite soil sample analytical results are compared to the New York State Department of Environmental Conservation (NYSDEC) Part 375 Unrestricted Use Soil Cleanup Objectives (UU SCOs) and Restricted Use - Residential (RUR) SCOs.
2. Only detected analytes are shown in table
2. No analytes were greater than the NYSDEC Part 375 UU and RUR SCOs.
3. mg/kg = milligram per kilogram
4. ~ = Criterion does not exist
5. NA = Not Analyzed
6. ND = Not Detected

Qualifiers:
J = The analyte was detected above the Method Detection Limit (MDL), but below the RL; therefore, the result is an estimated concentration.
I = The lower value for the two columns has been reported due to obvious interference.
P = The RPD between the results for the two columns exceeds the method-specified criteria.



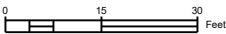
LEGEND

- APPROXIMATE BCP SITE BOUNDARY
- APPROXIMATE TAX LOT BOUNDARY
- PROPOSED AND APPROXIMATE PLACEMENT LOCATION FOR REUSED ON-SITE MATERIAL (AS NEEDED BASED ON PROGRESS OF SITE GRADING)

GENERAL NOTES

- BASE MAP SOURCE: SOE-100 PREPARED BY STRUCTURAL ENGINEERING TECHNOLOGIES, DATED 4/9/2018

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.



LANGAN

21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
T: 212.479.5400 F: 212.479.5444 www.langan.com
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. S.A.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC
Collectively known as Langan

Project

300 WEST 122ND STREET

**BLOCK No. 1948, LOT Nos. 30 & 35
MANHATTAN**

NEW YORK

NEW YORK

Figure Title

**CONSTRUCTION
SITE PLAN**

**PROPOSED
MATERIALS REUSE**

Project No.
170500201

Date
4/9/2019

Scale
1" = 30'

Drawn By
JL

Checked By
GCW

Submission Date

Figure No.

1

Sheet 1 of 1

DAILY FIELD REPORT

Prepared By: LANGAN

WEATHER	Snow		Rain		Overcast		Partly Cloudy		Sunny	X
TEMP.	< 32		32-50		50-70	X	70-85		>85	

BCP Project No:	C231067	E-Number:	E-120 / 14EHAZ282M	Date:	April 29, 2019
Project Name:	300 West 122 nd Street				

Consultant: Langan Engineering, Environmental, Surveying, Landscape Architecture, and Geology, D.P.C.	Langan Field Engineer: Ashley Stappenbeck
Construction Manager: Happy Living Development General Contractor: Happy Living Development Foundation Contractor: Rise Development (Rise)	
Work Activities Performed (Since Last Report): - Rise excavated about 100 cubic yards of historic fill and 80 cubic yards of native soil in the central portion of Grid 3 (16-20) and the west-central portion of Grid 4 (16-20). Historic fill was stockpiled in the west-central portion of Grid 3 for future off-site disposal. Native soil was stockpiled on top of and covered with plastic sheeting and sampled for reuse, the details of which are provided below. The material was screened for odors, staining and organic vapors using a photoionization detector (PID). Excavated soil did not exhibit evidence of petroleum impacts (i.e., petroleum-like odor, staining, and elevated PID readings above background). Soil was temporarily stockpiled for future off-site disposal. - Rise installed rebar in elevator pit area and constructed rebar formwork for grade beam. - Rise installed waterproofing in southern portion of Grid 3 around elevator pit area and on site walls. - Rise excavated about 30 cubic yards in the area around documentation samples EP14 to remove material above Track 2 soil cleanup objectives. Documentation samples were collected south and east of the original sample location, the details of which are provided below. A documentation sample north of the original sample location will be collected the following day. The excavation extended to the western site boundary and collection of a western documentation sample was precluded by the adjoining building. The material was screened for odors, staining and organic vapors using a photoionization detector (PID). Excavated soil did not exhibit evidence of petroleum impacts (i.e., petroleum-like odor, staining, and elevated PID readings above background). Soil was temporarily stockpiled for future off-site disposal. - Rise moved stockpiled material previously sampled for reuse from Grid 3 (20-21) to the central portion of Grid 4. This material is pending DEC approval for reuse. - Community Air Monitoring Plan (CAMP) was implemented at upwind (northwest) and downwind locations (southeast). Continuous monitoring was performed during construction activity. Organic vapor and particulate action levels were not exceeded during the monitoring period at the downwind CAMP station.	
Samples Collected (Since Last Report): Langan collected one reuse sample and three endpoint documentation samples.	

- Soil sample REUSE05_GRAB01 and REUSE05_GRAB02 were submitted for analysis of New York State Department of Environmental Conservation (NYSDEC) Part 375 volatile organic compounds (VOCs). Soil sample REUSE05_COMP01 was submitted for analysis for NYSDCE Part 375 semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, herbicides, metals (including hexavalent/trivalent chromium), and cyanide.
- Soil samples EP14_E_14.5_042919, EP22_15_042919, and EP14_S_10_042919 were submitted on ice in a cooler to Alpha Analytical Laboratories, Inc. of Westborough, Massachusetts for analysis of NYSDCE Part 375 VOCs, SVOCs, PCBs, pesticides, herbicides, metals (including hexavalent/trivalent chromium), and cyanide.

Air Monitoring (Since Last Report):

Particulate Monitoring (mg/m ³)			Organic Vapor Monitoring (ppm)		
Daily background	0.000		Daily Background	0.0	
Averaging Period	Upwind	Downwind	Averaging Period	Upwind	Downwind
Daily Time Weighted Average	0.015	0.020	Daily Time Weighted Average	0.0	0.1
Maximum 15-min Average	0.045	0.045	Maximum 15-min Average	0.0	0.2
Minimum 1-min Instant Reading	0.006	0.000	Minimum 1-min Instant Reading	0.0	0.0
Maximum 1-min Instant Reading	0.308	0.000	Maximum 1-min Instant Reading	0.1	0.3

mg/m³ = micrograms per cubic meter.

ppm= parts per million.

Problems Encountered:

- None.

Planned Activities:

- Excavate soil, install waterproofing.

CONSTRUCTION/FOUNDATION - EXPORT/IMPORT SUMMARIES

MATERIALS EXPORT SUMMARY 1

Facility Name	<i>Bayshore Soil Management, LLC</i>		<i>Resource Management Technologies, LLC</i>		<i>Allocco Recycling, Ltd.</i>	
Location	<i>Keasbey, NJ</i>		<i>North Bergen, NJ</i>		<i>Brooklyn, NY</i>	
Type of Waste	<i>Non-Hazardous Fill Material</i>		<i>C&D Material</i>		<i>C&D Material</i>	
Today	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)
	-	-	-	-	-	-
Total	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)	Number of Loads	Approx. Volume (CY)
	492	9,840	26	540	12	320

MATERIALS EXPORT SUMMARY 2

Facility Name	<i>Clean Water of New York</i>		<i>ABC Tank Repair and Lining, Inc.</i>		<i>Aarco Environmental Services Corp.</i>	
Location	<i>Staten Island, NY</i>		<i>Brooklyn, NY</i>		<i>Lindenhurst, NY</i>	
Type of Waste	<i>Non-hazardous Purge Groundwater</i>		<i>Petroleum-Based Waste</i>		<i>Non-hazardous Purge Water</i>	
Today	Number of Vac Trucks	Approx. Volume (gals)	Number of Tanks	Approx. Volume (gals)	Number of Drums	Approx. Volume (gals)
	-	-	-	-	-	-
Total	Number of Loads	Approx. Volume (gals)	Number of Loads	Approx. Volume (gals)	Number of Loads	Approx. Volume (gals)
	30	145,878	17	4,800	1	55

MATERIALS IMPORT SUMMARY

Facility Name	<i>RockTech of New Jersey, LLC</i>							
Location	<i>Jersey City, NJ</i>							
Type of Material	<i>¾" Clean Stone</i>							
Today	Number of Loads	Volume (CY)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	-	-	-	-	-	-	-	-
Total	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)	Number of Loads	Volume (tons)
	2	40	-	-	-	-	-	-

SITE PLAN

LEGEND

-  Approx. site boundary
-  Approx. excavation/drilling areas
-  Approx. grading area
-  Approx. soil disposal grid boundary established by Clean Earth
-  Upwind CAMP station
-  Downwind CAMP station
-  Approx. location of stockpile of excavated soil/fill material
-  Approx. location of stockpile of soil/fill material approved by the DEC for on-site reuse
-  Approx. UST location
-  Approx. location of frac tank

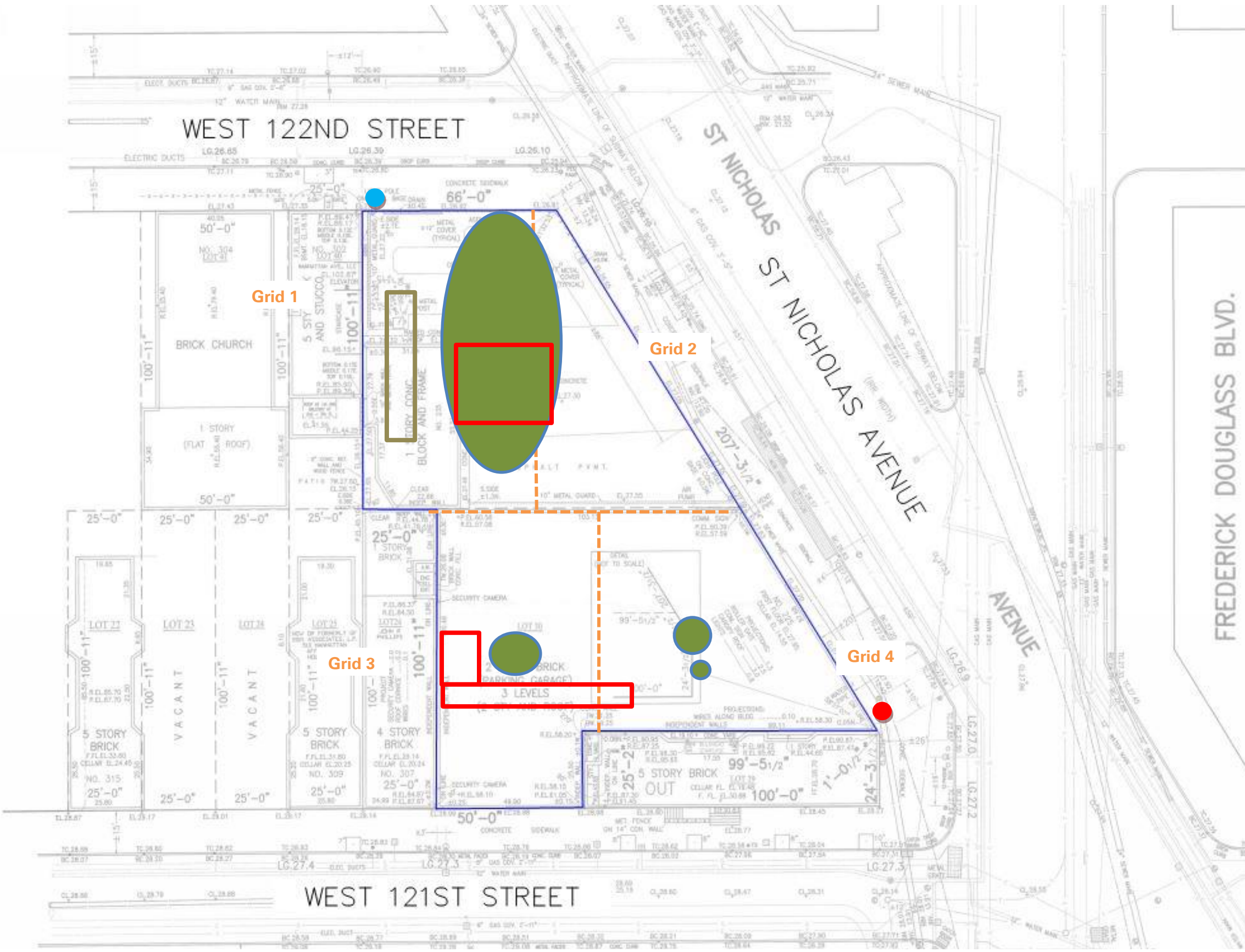


Photo Log

Photo 1:

View of DripDrop installing waterproofing in the southwestern portion of Grid 3, facing southwest.



Photo 2:

View of elevator pit in southern portion of Grid 3, facing southwest.



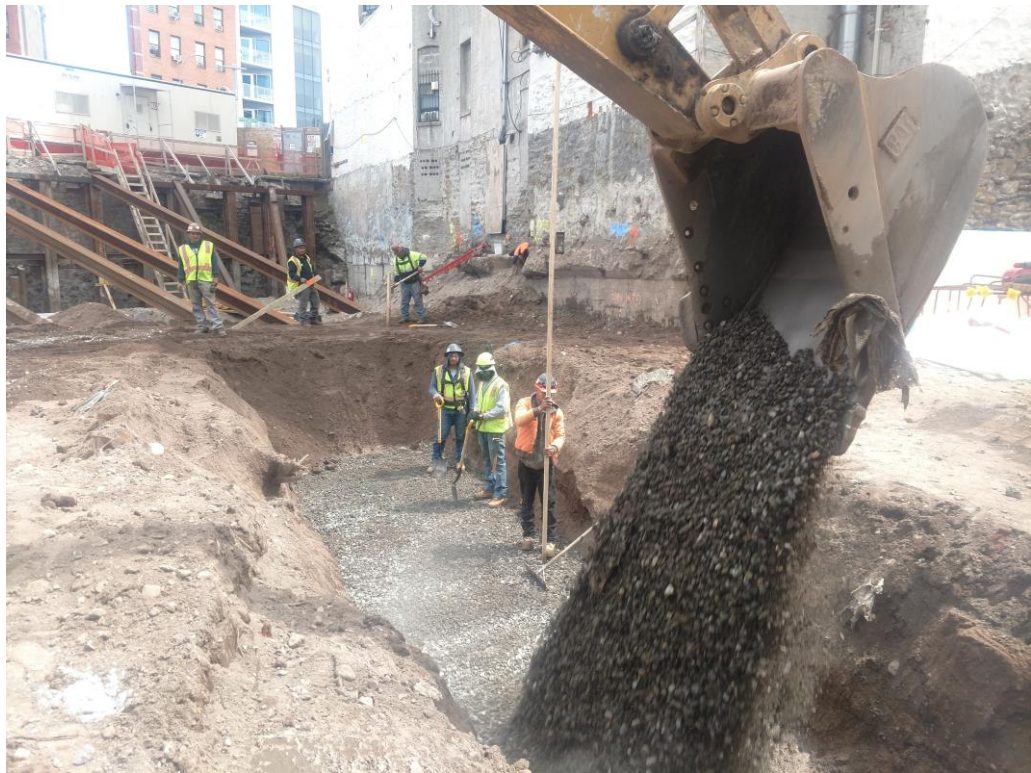
Photo 3:

View of Rise excavating for grade beam installation in central portion of Grid 3, facing south.



Photo 4:

View of Rise backfilling excavation area with $\frac{3}{4}$ -inch clean stone, facing southeast.





ANALYTICAL REPORT

Lab Number:	L1917599
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Greg Wyka
Phone:	(212) 479-5476
Project Name:	300 WEST 122ND ST.
Project Number:	170500202
Report Date:	04/30/19

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: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1917599-01	REUSE05_GRAB01	SOIL	NY, NY	04/29/19 14:40	04/29/19
L1917599-02	REUSE05_GRAB02	SOIL	NY, NY	04/29/19 14:45	04/29/19
L1917599-03	REUSE05_COMP01	SOIL	NY, NY	04/29/19 14:50	04/29/19

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Case Narrative

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

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

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

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

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

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

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

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.

Semivolatile Organics

The WG1231750-2/-3 LCS/LCSD recoveries, associated with L1917599-03, are below the acceptance criteria for benzoic acid (0%/0%); however, it has been identified as a "difficult" analyte. The results of the associated samples are reported.

Total Metals

L1917599-03: 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.

Cyanide, Total

The WG1231767-2/-3 LCS/LCSD recoveries(79%/69%), associated with L1917599-03, are 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:

 Amita Naik

Title: Technical Director/Representative

Date: 04/30/19

ORGANICS

VOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01
Client ID: REUSE05_GRAB01
Sample Location: NY, NY

Date Collected: 04/29/19 14:40
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/30/19 09:38
Analyst: JC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	0.27	J	ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.64	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19**SAMPLE RESULTS**

Lab ID: L1917599-01
Client ID: REUSE05_GRAB01
Sample Location: NY, NY

Date Collected: 04/29/19 14:40
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
Xylenes, Total	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Dibromomethane	ND		ug/kg	2.6	0.30	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	28		ug/kg	13	6.1	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
Vinyl acetate	ND		ug/kg	13	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.6	0.16	1
2-Hexanone	ND		ug/kg	13	1.5	1
Bromochloromethane	ND		ug/kg	2.6	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.6	0.26	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
1,3-Dichloropropane	ND		ug/kg	2.6	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.64	0.17	1
Bromobenzene	ND		ug/kg	2.6	0.18	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
o-Chlorotoluene	ND		ug/kg	2.6	0.24	1
p-Chlorotoluene	ND		ug/kg	2.6	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Hexachlorobutadiene	ND		ug/kg	5.1	0.22	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
Acrylonitrile	ND		ug/kg	5.1	1.5	1
Tert-Butyl Alcohol	ND		ug/kg	26	6.6	1

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01
Client ID: REUSE05_GRAB01
Sample Location: NY, NY

Date Collected: 04/29/19 14:40
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.6	0.41	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.42	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Acrolein	ND		ug/kg	32	7.2	1
Cyclohexane	ND		ug/kg	13	0.69	1
1,4-Dioxane	ND		ug/kg	100	45.	1
Freon-113	ND		ug/kg	5.1	0.88	1
p-Diethylbenzene	ND		ug/kg	2.6	0.22	1
p-Ethyltoluene	ND		ug/kg	2.6	0.49	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.6	0.24	1
Ethyl ether	ND		ug/kg	2.6	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.4	1.8	1
Methyl cyclohexane	ND		ug/kg	5.1	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-02
Client ID: REUSE05_GRAB02
Sample Location: NY, NY

Date Collected: 04/29/19 14:45
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260C
Analytical Date: 04/30/19 11:12
Analyst: JC
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.9	3.1	1
1,1-Dichloroethane	ND		ug/kg	1.4	0.20	1
Chloroform	ND		ug/kg	2.1	0.19	1
Carbon tetrachloride	ND		ug/kg	1.4	0.32	1
1,2-Dichloropropane	ND		ug/kg	1.4	0.17	1
Dibromochloromethane	ND		ug/kg	1.4	0.19	1
1,1,2-Trichloroethane	ND		ug/kg	1.4	0.37	1
Tetrachloroethene	ND		ug/kg	0.69	0.27	1
Chlorobenzene	ND		ug/kg	0.69	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.5	0.96	1
1,2-Dichloroethane	ND		ug/kg	1.4	0.35	1
1,1,1-Trichloroethane	ND		ug/kg	0.69	0.23	1
Bromodichloromethane	ND		ug/kg	0.69	0.15	1
trans-1,3-Dichloropropene	ND		ug/kg	1.4	0.38	1
cis-1,3-Dichloropropene	ND		ug/kg	0.69	0.22	1
1,3-Dichloropropene, Total	ND		ug/kg	0.69	0.22	1
1,1-Dichloropropene	ND		ug/kg	0.69	0.22	1
Bromoform	ND		ug/kg	5.5	0.34	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.69	0.23	1
Benzene	ND		ug/kg	0.69	0.23	1
Toluene	ND		ug/kg	1.4	0.75	1
Ethylbenzene	ND		ug/kg	1.4	0.19	1
Chloromethane	ND		ug/kg	5.5	1.3	1
Bromomethane	ND		ug/kg	2.7	0.80	1
Vinyl chloride	ND		ug/kg	1.4	0.46	1
Chloroethane	ND		ug/kg	2.7	0.62	1
1,1-Dichloroethene	ND		ug/kg	1.4	0.33	1
trans-1,2-Dichloroethene	ND		ug/kg	2.1	0.19	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-02
 Client ID: REUSE05_GRAB02
 Sample Location: NY, NY

Date Collected: 04/29/19 14:45
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.69	0.19	1
1,2-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,3-Dichlorobenzene	ND		ug/kg	2.7	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.7	0.24	1
Methyl tert butyl ether	ND		ug/kg	2.7	0.28	1
p/m-Xylene	ND		ug/kg	2.7	0.77	1
o-Xylene	ND		ug/kg	1.4	0.40	1
Xylenes, Total	ND		ug/kg	1.4	0.40	1
cis-1,2-Dichloroethene	ND		ug/kg	1.4	0.24	1
Dibromomethane	ND		ug/kg	2.7	0.33	1
Styrene	ND		ug/kg	1.4	0.27	1
Dichlorodifluoromethane	ND		ug/kg	14	1.2	1
Acetone	ND		ug/kg	14	6.6	1
Carbon disulfide	ND		ug/kg	14	6.2	1
2-Butanone	ND		ug/kg	14	3.0	1
Vinyl acetate	ND		ug/kg	14	3.0	1
4-Methyl-2-pentanone	ND		ug/kg	14	1.8	1
1,2,3-Trichloropropane	ND		ug/kg	2.7	0.17	1
2-Hexanone	ND		ug/kg	14	1.6	1
Bromochloromethane	ND		ug/kg	2.7	0.28	1
2,2-Dichloropropane	ND		ug/kg	2.7	0.28	1
1,2-Dibromoethane	ND		ug/kg	1.4	0.38	1
1,3-Dichloropropane	ND		ug/kg	2.7	0.23	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.69	0.18	1
Bromobenzene	ND		ug/kg	2.7	0.20	1
n-Butylbenzene	ND		ug/kg	1.4	0.23	1
sec-Butylbenzene	ND		ug/kg	1.4	0.20	1
tert-Butylbenzene	ND		ug/kg	2.7	0.16	1
o-Chlorotoluene	ND		ug/kg	2.7	0.26	1
p-Chlorotoluene	ND		ug/kg	2.7	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.1	1.4	1
Hexachlorobutadiene	ND		ug/kg	5.5	0.23	1
Isopropylbenzene	ND		ug/kg	1.4	0.15	1
p-Isopropyltoluene	ND		ug/kg	1.4	0.15	1
Naphthalene	ND		ug/kg	5.5	0.89	1
Acrylonitrile	ND		ug/kg	5.5	1.6	1
Tert-Butyl Alcohol	ND		ug/kg	27	7.1	1

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19**SAMPLE RESULTS****Lab ID:** L1917599-02**Date Collected:** 04/29/19 14:45**Client ID:** REUSE05_GRAB02**Date Received:** 04/29/19**Sample Location:** NY, NY**Field Prep:** Not Specified**Sample Depth:**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.4	0.24	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.7	0.44	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.7	0.37	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.7	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.7	0.46	1
Methyl Acetate	ND		ug/kg	5.5	1.3	1
Acrolein	ND		ug/kg	34	7.7	1
Cyclohexane	ND		ug/kg	14	0.75	1
1,4-Dioxane	ND		ug/kg	110	48.	1
Freon-113	ND		ug/kg	5.5	0.95	1
p-Diethylbenzene	ND		ug/kg	2.7	0.24	1
p-Ethyltoluene	ND		ug/kg	2.7	0.53	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.7	0.26	1
Ethyl ether	ND		ug/kg	2.7	0.47	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.9	2.0	1
Methyl cyclohexane	ND		ug/kg	5.5	0.83	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/30/19 09:12

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-Dichloropropene	ND		ug/kg	0.50	0.16
Bromoform	ND		ug/kg	4.0	0.25
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Chloromethane	ND		ug/kg	4.0	0.93
Bromomethane	ND		ug/kg	2.0	0.58
Vinyl chloride	ND		ug/kg	1.0	0.34
Chloroethane	ND		ug/kg	2.0	0.45
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/19 09:12
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
Styrene	ND		ug/kg	1.0	0.20
Dichlorodifluoromethane	ND		ug/kg	10	0.92
Acetone	ND		ug/kg	10	4.8
Carbon disulfide	ND		ug/kg	10	4.6
2-Butanone	ND		ug/kg	10	2.2
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C
 Analytical Date: 04/30/19 09:12
 Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
Isopropylbenzene	ND		ug/kg	1.0	0.11
p-Isopropyltoluene	ND		ug/kg	1.0	0.11
Naphthalene	ND		ug/kg	4.0	0.65
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
Methyl Acetate	ND		ug/kg	4.0	0.95
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19**Method Blank Analysis**
Batch Quality Control

Analytical Method: 1,8260C

Analytical Date: 04/30/19 09:12

Analyst: JC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1231875-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
Methylene chloride	96		96		70-130	0		30
1,1-Dichloroethane	104		103		70-130	1		30
Chloroform	94		92		70-130	2		30
Carbon tetrachloride	89		87		70-130	2		30
1,2-Dichloropropane	103		102		70-130	1		30
Dibromochloromethane	90		90		70-130	0		30
1,1,2-Trichloroethane	96		96		70-130	0		30
Tetrachloroethene	90		89		70-130	1		30
Chlorobenzene	88		86		70-130	2		30
Trichlorofluoromethane	75		74		70-139	1		30
1,2-Dichloroethane	102		101		70-130	1		30
1,1,1-Trichloroethane	91		90		70-130	1		30
Bromodichloromethane	95		93		70-130	2		30
trans-1,3-Dichloropropene	99		98		70-130	1		30
cis-1,3-Dichloropropene	100		100		70-130	0		30
1,1-Dichloropropene	97		94		70-130	3		30
Bromoform	86		86		70-130	0		30
1,1,2,2-Tetrachloroethane	91		89		70-130	2		30
Benzene	97		96		70-130	1		30
Toluene	90		88		70-130	2		30
Ethylbenzene	90		88		70-130	2		30
Chloromethane	118		115		52-130	3		30
Bromomethane	87		84		57-147	4		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
Vinyl chloride	99		95		67-130	4		30
Chloroethane	85		83		50-151	2		30
1,1-Dichloroethene	97		96		65-135	1		30
trans-1,2-Dichloroethene	94		93		70-130	1		30
Trichloroethene	94		94		70-130	0		30
1,2-Dichlorobenzene	87		87		70-130	0		30
1,3-Dichlorobenzene	87		87		70-130	0		30
1,4-Dichlorobenzene	87		86		70-130	1		30
Methyl tert butyl ether	100		99		66-130	1		30
p/m-Xylene	90		89		70-130	1		30
o-Xylene	88		88		70-130	0		30
cis-1,2-Dichloroethene	92		91		70-130	1		30
Dibromomethane	94		93		70-130	1		30
Styrene	88		86		70-130	2		30
Dichlorodifluoromethane	88		85		30-146	3		30
Acetone	122		125		54-140	2		30
Carbon disulfide	95		92		59-130	3		30
2-Butanone	107		103		70-130	4		30
Vinyl acetate	115		110		70-130	4		30
4-Methyl-2-pentanone	107		100		70-130	7		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	105		100		70-130	5		30
Bromochloromethane	98		96		70-130	2		30

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
2,2-Dichloropropane	96		94		70-130	2		30
1,2-Dibromoethane	94		92		70-130	2		30
1,3-Dichloropropane	95		94		69-130	1		30
1,1,1,2-Tetrachloroethane	89		87		70-130	2		30
Bromobenzene	85		86		70-130	1		30
n-Butylbenzene	89		88		70-130	1		30
sec-Butylbenzene	87		86		70-130	1		30
tert-Butylbenzene	85		85		70-130	0		30
o-Chlorotoluene	87		88		70-130	1		30
p-Chlorotoluene	88		89		70-130	1		30
1,2-Dibromo-3-chloropropane	89		84		68-130	6		30
Hexachlorobutadiene	83		84		67-130	1		30
Isopropylbenzene	87		85		70-130	2		30
p-Isopropyltoluene	87		86		70-130	1		30
Naphthalene	87		85		70-130	2		30
Acrylonitrile	115		109		70-130	5		30
Tert-Butyl Alcohol	101		98		70-130	3		30
n-Propylbenzene	88		87		70-130	1		30
1,2,3-Trichlorobenzene	87		87		70-130	0		30
1,2,4-Trichlorobenzene	88		86		70-130	2		30
1,3,5-Trimethylbenzene	88		88		70-130	0		30
1,2,4-Trimethylbenzene	90		88		70-130	2		30
Methyl Acetate	124		121		51-146	2		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-02 Batch: WG1231875-3 WG1231875-4								
Acrolein	120		110		70-130	9		30
Cyclohexane	111		110		59-142	1		30
1,4-Dioxane	105		99		65-136	6		30
Freon-113	99		96		50-139	3		30
p-Diethylbenzene	89		87		70-130	2		30
p-Ethyltoluene	90		89		70-130	1		30
1,2,4,5-Tetramethylbenzene	86		84		70-130	2		30
Ethyl ether	106		105		67-130	1		30
trans-1,4-Dichloro-2-butene	108		104		70-130	4		30
Methyl cyclohexane	94		92		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	108		105		70-130
Toluene-d8	100		99		70-130
4-Bromofluorobenzene	103		103		70-130
Dibromofluoromethane	99		100		70-130

SEMIVOLATILES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:36
Analyst: EK
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/19 05:20

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Benzidine	ND		ug/kg	580	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	17.	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
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	75	J	ug/kg	100	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	500	160	1
Hexachloroethane	ND		ug/kg	140	28.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	ND		ug/kg	180	21.	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	44.	1

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
 Client ID: REUSE05_COMP01
 Sample Location: NY, NY

Date Collected: 04/29/19 14:50
 Date Received: 04/29/19
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	180	33.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	53	J	ug/kg	100	20.	1
Benzo(a)pyrene	55	J	ug/kg	140	43.	1
Benzo(b)fluoranthene	75	J	ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	55	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	30	J	ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	74	J	ug/kg	100	18.	1
Biphenyl	ND		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	ND		ug/kg	180	17.	1
2-Methylnaphthalene	ND		ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	350	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	100	33.	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

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	28.	1
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
Atrazine	ND		ug/kg	140	62.	1
Benzaldehyde	ND		ug/kg	230	48.	1
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	99		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	91		23-120
2-Fluorobiphenyl	103		30-120
2,4,6-Tribromophenol	166	Q	10-136
4-Terphenyl-d14	103		18-120

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1231750-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	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	27.
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	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1231750-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	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	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270D
Analytical Date: 04/30/19 13:32
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 04/30/19 04:02

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1231750-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	81		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	82		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
Acenaphthene	82		80		31-137	2		50
Benzidine	53		55		10-66	4		50
1,2,4-Trichlorobenzene	76		72		38-107	5		50
Hexachlorobenzene	88		84		40-140	5		50
Bis(2-chloroethyl)ether	72		72		40-140	0		50
2-Chloronaphthalene	84		82		40-140	2		50
1,2-Dichlorobenzene	72		70		40-140	3		50
1,3-Dichlorobenzene	71		67		40-140	6		50
1,4-Dichlorobenzene	71		68		28-104	4		50
3,3'-Dichlorobenzidine	86		86		40-140	0		50
2,4-Dinitrotoluene	92		90		40-132	2		50
2,6-Dinitrotoluene	90		88		40-140	2		50
Azobenzene	95		91		40-140	4		50
Fluoranthene	83		82		40-140	1		50
4-Chlorophenyl phenyl ether	87		84		40-140	4		50
4-Bromophenyl phenyl ether	93		89		40-140	4		50
Bis(2-chloroisopropyl)ether	87		83		40-140	5		50
Bis(2-chloroethoxy)methane	79		76		40-117	4		50
Hexachlorobutadiene	80		80		40-140	0		50
Hexachlorocyclopentadiene	40		45		40-140	12		50
Hexachloroethane	70		69		40-140	1		50
Isophorone	83		80		40-140	4		50
Naphthalene	77		74		40-140	4		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
Nitrobenzene	81		78		40-140	4		50
NDPA/DPA	90		89		36-157	1		50
n-Nitrosodi-n-propylamine	83		81		32-121	2		50
Bis(2-ethylhexyl)phthalate	101		99		40-140	2		50
Butyl benzyl phthalate	91		90		40-140	1		50
Di-n-butylphthalate	89		86		40-140	3		50
Di-n-octylphthalate	105		104		40-140	1		50
Diethyl phthalate	94		92		40-140	2		50
Dimethyl phthalate	90		85		40-140	6		50
Benzo(a)anthracene	94		92		40-140	2		50
Benzo(a)pyrene	98		97		40-140	1		50
Benzo(b)fluoranthene	93		93		40-140	0		50
Benzo(k)fluoranthene	92		91		40-140	1		50
Chrysene	88		87		40-140	1		50
Acenaphthylene	89		88		40-140	1		50
Anthracene	80		79		40-140	1		50
Benzo(ghi)perylene	82		80		40-140	2		50
Fluorene	91		87		40-140	4		50
Phenanthrene	78		77		40-140	1		50
Dibenzo(a,h)anthracene	80		79		40-140	1		50
Indeno(1,2,3-cd)pyrene	87		85		40-140	2		50
Pyrene	82		81		35-142	1		50
Biphenyl	84		82		54-104	2		50

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
4-Chloroaniline	93		96		40-140	3		50
2-Nitroaniline	96		90		47-134	6		50
3-Nitroaniline	99		94		26-129	5		50
4-Nitroaniline	100		97		41-125	3		50
Dibenzofuran	86		85		40-140	1		50
2-Methylnaphthalene	80		76		40-140	5		50
1,2,4,5-Tetrachlorobenzene	90		87		40-117	3		50
Acetophenone	85		82		14-144	4		50
n-Nitrosodimethylamine	72		68		22-100	6		50
2,4,6-Trichlorophenol	97		96		30-130	1		50
p-Chloro-m-cresol	96		94		26-103	2		50
2-Chlorophenol	80		76		25-102	5		50
2,4-Dichlorophenol	88		86		30-130	2		50
2,4-Dimethylphenol	90		86		30-130	5		50
2-Nitrophenol	60		65		30-130	8		50
4-Nitrophenol	97		96		11-114	1		50
2,4-Dinitrophenol	20		20		4-130	0		50
4,6-Dinitro-o-cresol	28		33		10-130	16		50
Pentachlorophenol	79		81		17-109	3		50
Phenol	84		81		26-90	4		50
2-Methylphenol	83		80		30-130	4		50
3-Methylphenol/4-Methylphenol	90		87		30-130	3		50
2,4,5-Trichlorophenol	97		96		30-130	1		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1231750-2 WG1231750-3								
Benzoic Acid	0	Q	0	Q	10-110	NC		50
Benzyl Alcohol	88		85		40-140	3		50
Carbazole	84		83		54-128	1		50
Atrazine	119		122		40-140	2		50
Benzaldehyde	78		76		40-140	3		50
Caprolactam	116		112		15-130	4		50
2,3,4,6-Tetrachlorophenol	91		91		40-140	0		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	78		77		25-120
Phenol-d6	78		77		10-120
Nitrobenzene-d5	83		82		23-120
2-Fluorobiphenyl	84		83		30-120
2,4,6-Tribromophenol	95		99		10-136
4-Terphenyl-d14	81		82		18-120

PCBS

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 04/30/19 11:47
Analyst: WR
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/19 03:41
Cleanup Method: EPA 3665A
Cleanup Date: 04/30/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	33.9	3.01	1	A
Aroclor 1221	ND		ug/kg	33.9	3.40	1	A
Aroclor 1232	ND		ug/kg	33.9	7.19	1	A
Aroclor 1242	ND		ug/kg	33.9	4.57	1	A
Aroclor 1248	ND		ug/kg	33.9	5.09	1	A
Aroclor 1254	ND		ug/kg	33.9	3.71	1	A
Aroclor 1260	ND		ug/kg	33.9	6.27	1	A
Aroclor 1262	ND		ug/kg	33.9	4.31	1	A
Aroclor 1268	ND		ug/kg	33.9	3.51	1	A
PCBs, Total	ND		ug/kg	33.9	3.01	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

**Method Blank Analysis
Batch Quality Control**

Analytical Method: 1,8082A
Analytical Date: 04/30/19 10:30
Analyst: WR

Extraction Method: EPA 3546
Extraction Date: 04/29/19 20:34
Cleanup Method: EPA 3665A
Cleanup Date: 04/30/19
Cleanup Method: EPA 3660B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1231658-1						
Aroclor 1016	ND		ug/kg	32.6	2.89	A
Aroclor 1221	ND		ug/kg	32.6	3.26	A
Aroclor 1232	ND		ug/kg	32.6	6.91	A
Aroclor 1242	ND		ug/kg	32.6	4.39	A
Aroclor 1248	ND		ug/kg	32.6	4.89	A
Aroclor 1254	ND		ug/kg	32.6	3.56	A
Aroclor 1260	ND		ug/kg	32.6	6.02	A
Aroclor 1262	ND		ug/kg	32.6	4.14	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.89	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231658-2 WG1231658-3									
Aroclor 1016	107		100		40-140	7		50	A
Aroclor 1260	87		84		40-140	4		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		76		30-150	A
Decachlorobiphenyl	70		69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		78		30-150	B
Decachlorobiphenyl	73		75		30-150	B

PESTICIDES

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 04/30/19 14:15
Analyst: AMC
Percent Solids: 93%

Extraction Method: EPA 3546
Extraction Date: 04/30/19 10:23
Cleanup Method: EPA 3620B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.63	0.319	1	A
Lindane	ND		ug/kg	0.678	0.303	1	A
Alpha-BHC	ND		ug/kg	0.678	0.193	1	A
Beta-BHC	ND		ug/kg	1.63	0.617	1	A
Heptachlor	ND		ug/kg	0.814	0.365	1	A
Aldrin	ND		ug/kg	1.63	0.573	1	A
Heptachlor epoxide	ND		ug/kg	3.05	0.916	1	A
Endrin	ND		ug/kg	0.678	0.278	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.712	1	A
Endrin ketone	ND		ug/kg	1.63	0.419	1	A
Dieldrin	ND		ug/kg	1.02	0.509	1	A
4,4'-DDE	ND		ug/kg	1.63	0.376	1	A
4,4'-DDD	ND		ug/kg	1.63	0.581	1	A
4,4'-DDT	ND		ug/kg	3.05	1.31	1	B
Endosulfan I	ND		ug/kg	1.63	0.385	1	A
Endosulfan II	ND		ug/kg	1.63	0.544	1	A
Endosulfan sulfate	ND		ug/kg	0.678	0.323	1	A
Methoxychlor	ND		ug/kg	3.05	0.950	1	A
Toxaphene	ND		ug/kg	30.5	8.55	1	A
cis-Chlordane	ND		ug/kg	2.04	0.567	1	A
trans-Chlordane	1.94	JIP	ug/kg	2.04	0.537	1	A
Chlordane	ND		ug/kg	13.2	5.39	1	A

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19**SAMPLE RESULTS****Lab ID:** L1917599-03**Date Collected:** 04/29/19 14:50**Client ID:** REUSE05_COMP01**Date Received:** 04/29/19**Sample Location:** NY, NY**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	96		30-150	B
Decachlorobiphenyl	86		30-150	B
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	71		30-150	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03
Client ID: REUSE05_COMP01
Sample Location: NY, NY

Date Collected: 04/29/19 14:50
Date Received: 04/29/19
Field Prep: Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 04/30/19 15:54
Analyst: DGM
Percent Solids: 93%
Methylation Date: 04/30/19 14:19

Extraction Method: EPA 8151A
Extraction Date: 04/30/19 10:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column

Chlorinated Herbicides by GC - Westborough Lab

2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	74		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 04/30/19 16:12
Analyst: DGM

Extraction Method: EPA 8151A
Extraction Date: 04/29/19 14:39

Methylation Date: 04/30/19 14:19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 03 Batch: WG1231543-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.03	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	89		30-150	A
DCAA	75		30-150	B

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 04/30/19 10:55
Analyst: KEG

Extraction Method: EPA 3546
Extraction Date: 04/29/19 18:39
Cleanup Method: EPA 3620B
Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1231628-1						
Delta-BHC	ND		ug/kg	1.56	0.305	A
Lindane	ND		ug/kg	0.648	0.290	A
Alpha-BHC	ND		ug/kg	0.648	0.184	A
Beta-BHC	ND		ug/kg	1.56	0.590	A
Heptachlor	ND		ug/kg	0.778	0.349	A
Aldrin	ND		ug/kg	1.56	0.548	A
Heptachlor epoxide	ND		ug/kg	2.92	0.875	A
Endrin	ND		ug/kg	0.648	0.266	A
Endrin aldehyde	ND		ug/kg	1.94	0.681	A
Endrin ketone	ND		ug/kg	1.56	0.401	A
Dieldrin	ND		ug/kg	0.973	0.486	A
4,4'-DDE	ND		ug/kg	1.56	0.360	A
4,4'-DDD	ND		ug/kg	1.56	0.555	A
4,4'-DDT	ND		ug/kg	2.92	1.25	A
Endosulfan I	ND		ug/kg	1.56	0.368	A
Endosulfan II	ND		ug/kg	1.56	0.520	A
Endosulfan sulfate	ND		ug/kg	0.648	0.309	A
Methoxychlor	ND		ug/kg	2.92	0.908	A
Toxaphene	ND		ug/kg	29.2	8.17	A
cis-Chlordane	ND		ug/kg	1.94	0.542	A
trans-Chlordane	ND		ug/kg	1.94	0.514	A
Chlordane	ND		ug/kg	12.6	5.16	A

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
 Analytical Date: 04/30/19 10:55
 Analyst: KEG

Extraction Method: EPA 3546
 Extraction Date: 04/29/19 18:39
 Cleanup Method: EPA 3620B
 Cleanup Date: 04/30/19

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1231628-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	69		30-150	B
2,4,5,6-Tetrachloro-m-xylene	90		30-150	A
Decachlorobiphenyl	101		30-150	A

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231543-2 WG1231543-3									
2,4-D	106		116		30-150	9		30	A
2,4,5-T	91		91		30-150	0		30	A
2,4,5-TP (Silvex)	95		94		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		90		30-150	A
DCAA	86		86		30-150	B

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231628-2 WG1231628-3									
Delta-BHC	137		133		30-150	3		30	A
Lindane	131		128		30-150	2		30	A
Alpha-BHC	141		137		30-150	3		30	A
Beta-BHC	133		125		30-150	6		30	A
Heptachlor	113		115		30-150	2		30	A
Aldrin	139		132		30-150	5		30	A
Heptachlor epoxide	147		143		30-150	3		30	A
Endrin	145		138		30-150	5		30	A
Endrin aldehyde	118		101		30-150	16		30	A
Endrin ketone	123		110		30-150	11		30	A
Dieldrin	145		138		30-150	5		30	A
4,4'-DDE	139		133		30-150	4		30	A
4,4'-DDD	126		120		30-150	5		30	A
4,4'-DDT	111		105		30-150	6		30	A
Endosulfan I	127		122		30-150	4		30	A
Endosulfan II	130		123		30-150	6		30	A
Endosulfan sulfate	112		104		30-150	7		30	A
Methoxychlor	98		91		30-150	7		30	A
cis-Chlordane	118		114		30-150	3		30	A
trans-Chlordane	107		102		30-150	5		30	A

Lab Control Sample Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1231628-2 WG1231628-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		77		30-150	B
Decachlorobiphenyl	76		63		30-150	B
2,4,5,6-Tetrachloro-m-xylene	122		114		30-150	A
Decachlorobiphenyl	144		133		30-150	A

METALS

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19**SAMPLE RESULTS**

Lab ID: L1917599-03

Date Collected: 04/29/19 14:50

Client ID: REUSE05_COMP01

Date Received: 04/29/19

Sample Location: NY, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	1760		mg/kg	8.47	2.29	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Antimony, Total	0.525	J	mg/kg	4.23	0.322	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Arsenic, Total	0.364	J	mg/kg	0.847	0.176	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Barium, Total	23.3		mg/kg	0.847	0.147	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Beryllium, Total	0.102	J	mg/kg	0.423	0.028	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.847	0.083	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Calcium, Total	2020		mg/kg	8.47	2.96	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Chromium, Total	6.21		mg/kg	0.847	0.081	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Cobalt, Total	1.99		mg/kg	1.69	0.140	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Copper, Total	10.5		mg/kg	0.847	0.218	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Iron, Total	3910		mg/kg	4.23	0.764	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Lead, Total	25.6		mg/kg	4.23	0.227	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Magnesium, Total	930		mg/kg	8.47	1.30	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Manganese, Total	114		mg/kg	0.847	0.135	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Mercury, Total	ND		mg/kg	0.068	0.014	1	04/30/19 05:20	04/30/19 15:30	EPA 7471B	1,7471B	GD
Nickel, Total	5.53		mg/kg	2.12	0.205	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Potassium, Total	386		mg/kg	212	12.2	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Selenium, Total	ND		mg/kg	1.69	0.218	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Silver, Total	ND		mg/kg	0.847	0.240	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Sodium, Total	46.8	J	mg/kg	169	2.67	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Thallium, Total	ND		mg/kg	1.69	0.267	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Vanadium, Total	5.97		mg/kg	0.847	0.172	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB
Zinc, Total	15.0		mg/kg	4.23	0.248	2	04/30/19 06:00	04/30/19 10:23	EPA 3050B	1,6010D	AB

General Chemistry - Mansfield Lab

Chromium, Trivalent	6.2		mg/kg	0.86	0.86	1		04/30/19 10:23	NA	107,-	



Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

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): 03 Batch: WG1231761-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Antimony, Total	ND		mg/kg	2.00	0.152	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Arsenic, Total	ND		mg/kg	0.400	0.083	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Barium, Total	ND		mg/kg	0.400	0.070	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Calcium, Total	ND		mg/kg	4.00	1.40	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Chromium, Total	ND		mg/kg	0.400	0.038	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Cobalt, Total	ND		mg/kg	0.800	0.066	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Copper, Total	ND		mg/kg	0.400	0.103	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Iron, Total	ND		mg/kg	2.00	0.361	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Lead, Total	ND		mg/kg	2.00	0.107	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Magnesium, Total	ND		mg/kg	4.00	0.616	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Manganese, Total	ND		mg/kg	0.400	0.064	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Nickel, Total	ND		mg/kg	1.00	0.097	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Potassium, Total	ND		mg/kg	100	5.76	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Selenium, Total	ND		mg/kg	0.800	0.103	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Silver, Total	ND		mg/kg	0.400	0.113	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Sodium, Total	ND		mg/kg	80.0	1.26	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Thallium, Total	ND		mg/kg	0.800	0.126	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Vanadium, Total	ND		mg/kg	0.400	0.081	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB
Zinc, Total	ND		mg/kg	2.00	0.117	1	04/30/19 06:00	04/30/19 09:49	1,6010D	AB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 03 Batch: WG1231763-1										
Mercury, Total	ND		mg/kg	0.083	0.018	1	04/30/19 05:20	04/30/19 15:09	1,7471B	GD



Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

Method Blank Analysis Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1231761-2 SRM Lot Number: D101-540								
Aluminum, Total	58		-		50-151	-		
Antimony, Total	163		-		3-196	-		
Arsenic, Total	101		-		83-117	-		
Barium, Total	97		-		83-118	-		
Beryllium, Total	96		-		83-117	-		
Cadmium, Total	101		-		83-117	-		
Calcium, Total	89		-		81-119	-		
Chromium, Total	102		-		81-118	-		
Cobalt, Total	98		-		84-116	-		
Copper, Total	106		-		83-116	-		
Iron, Total	76		-		62-138	-		
Lead, Total	100		-		83-117	-		
Magnesium, Total	77		-		76-124	-		
Manganese, Total	95		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Potassium, Total	79		-		71-130	-		
Selenium, Total	104		-		79-121	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	91		-		72-127	-		
Thallium, Total	96		-		81-119	-		
Vanadium, Total	88		-		79-121	-		

Lab Control Sample Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1231761-2 SRM Lot Number: D101-540					
Zinc, Total	96	-	81-119	-	
Total Metals - Mansfield Lab Associated sample(s): 03 Batch: WG1231763-2 SRM Lot Number: D101-540					
Mercury, Total	115	-	65-135	-	

Matrix Spike Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

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): 03 QC Batch ID: WG1231761-3 QC Sample: L1917598-01 Client ID: MS Sample												
Aluminum, Total	3000	165	3790	477	Q	-	-		75-125	-		20
Antimony, Total	0.410J	41.4	41.3	100		-	-		75-125	-		20
Arsenic, Total	1.13	9.93	11.5	104		-	-		75-125	-		20
Barium, Total	42.0	165	210	102		-	-		75-125	-		20
Beryllium, Total	0.145J	4.14	3.83	92		-	-		75-125	-		20
Cadmium, Total	ND	4.22	3.79	90		-	-		75-125	-		20
Calcium, Total	10800	827	15600	580	Q	-	-		75-125	-		20
Chromium, Total	8.14	16.5	23.7	94		-	-		75-125	-		20
Cobalt, Total	3.09	41.4	38.6	86		-	-		75-125	-		20
Copper, Total	14.4	20.7	34.5	97		-	-		75-125	-		20
Iron, Total	6440	82.7	6700	314	Q	-	-		75-125	-		20
Lead, Total	68.6	42.2	116	112		-	-		75-125	-		20
Magnesium, Total	1660	827	2610	115		-	-		75-125	-		20
Manganese, Total	173	41.4	252	191	Q	-	-		75-125	-		20
Nickel, Total	8.15	41.4	44.0	87		-	-		75-125	-		20
Potassium, Total	719	827	1610	108		-	-		75-125	-		20
Selenium, Total	ND	9.93	9.67	97		-	-		75-125	-		20
Silver, Total	ND	24.8	22.6	91		-	-		75-125	-		20
Sodium, Total	108J	827	942	114		-	-		75-125	-		20
Thallium, Total	ND	9.93	7.41	75		-	-		75-125	-		20
Vanadium, Total	11.6	41.4	48.2	88		-	-		75-125	-		20

Matrix Spike Analysis **Batch Quality Control**

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

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 QC Batch ID: WG1231761-3 QC Sample: L1917598-01 Client ID: MS Sample									
Zinc, Total	36.9	41.4	87.6	122	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231763-3 QC Sample: L1917644-01 Client ID: MS Sample									
Mercury, Total	0.046J	0.16	0.211	132	Q	-	80-120	-	20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231761-4 QC Sample: L1917598-01 Client ID: DUP Sample						
Aluminum, Total	3000	3160	mg/kg	5		20
Antimony, Total	0.410J	0.440J	mg/kg	NC		20
Arsenic, Total	1.13	1.25	mg/kg	10		20
Barium, Total	42.0	35.5	mg/kg	17		20
Beryllium, Total	0.145J	0.147J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	10800	8640	mg/kg	22	Q	20
Chromium, Total	8.14	9.06	mg/kg	11		20
Cobalt, Total	3.09	3.59	mg/kg	15		20
Copper, Total	14.4	15.9	mg/kg	10		20
Iron, Total	6440	6190	mg/kg	4		20
Lead, Total	68.6	59.9	mg/kg	14		20
Magnesium, Total	1660	1850	mg/kg	11		20
Manganese, Total	173	146	mg/kg	17		20
Nickel, Total	8.15	9.07	mg/kg	11		20
Potassium, Total	719	757	mg/kg	5		20
Selenium, Total	ND	0.269J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	108J	113J	mg/kg	NC		20

Lab Duplicate Analysis *Batch Quality Control*

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231761-4 QC Sample: L1917598-01 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	11.6	9.69	mg/kg	18	20
Zinc, Total	36.9	36.6	mg/kg	1	20
Total Metals - Mansfield Lab Associated sample(s): 03 QC Batch ID: WG1231763-4 QC Sample: L1917644-01 Client ID: DUP Sample					
Mercury, Total	0.046J	0.037J	mg/kg	NC	20

INORGANICS & MISCELLANEOUS

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-01

Client ID: REUSE05_GRAB01

Sample Location: NY, NY

Date Collected: 04/29/19 14:40

Date Received: 04/29/19

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.7		%	0.100	NA	1	-	04/30/19 03:33	121,2540G	YA



Project Name: 300 WEST 122ND ST.**Project Number:** 170500202**Lab Number:** L1917599**Report Date:** 04/30/19**SAMPLE RESULTS****Lab ID:** L1917599-02**Client ID:** REUSE05_GRAB02**Sample Location:** NY, NY**Date Collected:** 04/29/19 14:45**Date Received:** 04/29/19**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	86.6		%	0.100	NA	1	-	04/30/19 03:33	121,2540G	YA



Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

SAMPLE RESULTS

Lab ID: L1917599-03

Client ID: REUSE05_COMP01

Sample Location: NY, NY

Date Collected: 04/29/19 14:50

Date Received: 04/29/19

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	93.0		%	0.100	NA	1	-	04/30/19 03:33	121,2540G	YA
Cyanide, Total	ND		mg/kg	1.0	0.22	1	04/30/19 05:50	04/30/19 11:13	1,9010C/9012B	LH
Chromium, Hexavalent	ND		mg/kg	0.860	0.172	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH



Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

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): 03 Batch: WG1231764-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	04/30/19 04:41	04/30/19 09:36	1,7196A	NH
General Chemistry - Westborough Lab for sample(s): 03 Batch: WG1231767-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	04/30/19 05:50	04/30/19 11:00	1,9010C/9012B	LH

Lab Control Sample Analysis Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1231764-2								
Chromium, Hexavalent	93		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 Batch: WG1231767-2 WG1231767-3								
Cyanide, Total	79	Q	69	Q	80-120	15		35

Matrix Spike Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Lab Number: L1917599

Project Number: 170500202

Report Date: 04/30/19

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): 03 QC Batch ID: WG1231764-4 QC Sample: L1917598-03 Client ID: MS Sample												
Chromium, Hexavalent	ND	1300	1240	95		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1231767-4 WG1231767-5 QC Sample: L1917599-03 Client ID: REUSE05_COMP01												
Cyanide, Total	ND	11	10	94		9.6	97		75-125	4		35

Lab Duplicate Analysis

Batch Quality Control

Project Name: 300 WEST 122ND ST.

Project Number: 170500202

Lab Number: L1917599

Report Date: 04/30/19

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1231740-1 QC Sample: L1917608-01 Client ID: DUP Sample						
Solids, Total	92.9	92.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 03 QC Batch ID: WG1231764-6 QC Sample: L1917598-03 Client ID: DUP Sample						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Serial_No:04301918:54
Lab Number: L1917599
Report Date: 04/30/19

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(*)
L1917599-01A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917599-01B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-01C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-01D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917599-02A	Vial MeOH preserved	A	NA		3.7	Y	Absent		NYTCL-8260HLW(14)
L1917599-02B	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-02C	Vial water preserved	A	NA		3.7	Y	Absent	30-APR-19 02:48	NYTCL-8260HLW(14)
L1917599-02D	Plastic 2oz unpreserved for TS	A	NA		3.7	Y	Absent		TS(7)
L1917599-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.7	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)
L1917599-03B	Glass 120ml/4oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)
L1917599-03C	Glass 500ml/16oz unpreserved	A	NA		3.7	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),NYTCL-8081(14),NYTCL-8082(14),HEXCR-7196(30)

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCS D	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: DU Report with 'J' Qualifiers

Project Name: 300 WEST 122ND ST.**Lab Number:** L1917599**Project Number:** 170500202**Report Date:** 04/30/19

- 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.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

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 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.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Report Format: DU Report with 'J' Qualifiers



Project Name: 300 WEST 122ND ST.
Project Number: 170500202

Lab Number: L1917599
Report Date: 04/30/19

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.



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

Revision 12

Published Date: 10/9/2018 4:58:19 PM

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Certification Information

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

Westborough Facility**EPA 624/624.1:** m/p-xylene, o-xylene**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 6860:** SCM: Perchlorate**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

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

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

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

From: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Sent: Friday, May 03, 2019 9:30 AM
To: Julia Leung
Cc: O'Connell, Jane H (DEC); David Yudelson; Mimi Raygorodetsky; Levi Balkany; Naftali L; Saar Elazar (saar@happylivingdev.com); Ashley Stappenbeck; Greg Wyka
Subject: RE: 300 W 122nd Street C231067 - Soil Reuse Request No. 5

Julia: The Department has reviewed the request dated May 2, 2019 to reuse 80 cubic yards of soil at the Former Shell site # C231067 site. Based on the information provided, the request is hereby approved.

The proposed fill material meets the Unrestricted Use Soil Cleanup Objectives re: Appendix 5 of DER-10.
Re-sent with corrections

Nigel N. Crawford, P.E.

Environmental Engineer 2,
Division of Environmental Remediation

New York State Department of Environmental Conservation

NYSDEC Region 2
47-40 21st Street, LIC New York 11101
P: (718) 482-7778 | F: (718) 482-6358
nigel.crawford@dec.ny.gov
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From: Julia Leung <JLeung@Langan.com>
Sent: Thursday, May 02, 2019 9:49 AM
To: Crawford, Nigel (DEC) <nigel.crawford@dec.ny.gov>
Cc: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>; David Yudelson <dyudelson@sprlaw.com>; Mimi Raygorodetsky <mraygorodetsky@langan.com>; Levi Balkany <Levi@happylivingdev.com>; Naftali L <naftalil@happylivingdev.com>; Saar Elazar (saar@happylivingdev.com) <saar@happylivingdev.com>; Ashley Stappenbeck <astappenbeck@langan.com>; Greg Wyka <gwyka@langan.com>
Subject: 300 W 122nd Street C231067 - Soil Reuse Request No. 5

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Hi Nigel,

Please find attached a soil reuse request (No. 5) for the 300 W 122nd Street site for your review and approval. About 80 cubic yards of on-site soil was segregated, stockpiled, and sampled for lab analysis of Part 375 parameters. The material meets Unrestricted Use SCOs. If you could please issue your approval early next week, we would greatly appreciate it.

Please also let us know if you have any questions regarding Reuse Request No. 4 that we sent on 4/17/19.

Thank you,
Julia Leung
Project Engineer
Direct: 212.479.5452
Mobile: 917.892.3222
[File Sharing Link](#)

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