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August 31, 2016

Ms. Lee Guterman
Director of Hazmat Unit, IEH Division
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101-3045

Re: Waste Characterization Sampling Report
Public School 28Q – Proposed Temporary Classroom Units (TCUs) for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368
SCA LLW No.: 105316; IEH Service ID: 65109; Building ID: Q974
TRC Project No.: 262757

Dear Ms. Guterman:

TRC Engineers, Inc. (TRC) has prepared this Waste Characterization Sampling Report for the proposed Pre-Kindergarten facility located at 109-10 47th Avenue, Corona, Queens, New York 11368 (the "Site"). A Site Plan is presented as *Figure 1*.

SITE DESCRIPTION AND BACKGROUND

The Site consists of an asphalt and concrete paved lot occupied by various playground equipment and landscaped areas (trees) located adjacent to Public School 28Q (PS 28Q) encompassing approximately 17,700 square feet. TRC understands that the New York City School Construction Authority (NYCSCA) is considering constructing Temporary Classroom Units (TCUs) for use as a Pre-Kindergarten facility at the Site. The construction activities related to the TCUs may include excavation for utility trenches and footings/foundations.

DESCRIPTION OF WASTE CHARACTERIZATION FIELD ACTIVITIES

A summary of the waste characterization soil sampling is presented below.

Geophysical Survey

In advance of waste characterization sampling, a geophysical surveyor, Nova Geophysics, Inc. (Nova), accompanied by TRC Project Engineer Mr. James Robinson, was on-Site to clear proposed boring locations. Nova utilized a combination of ground penetrating radar (GPR) and a utility locator (3M DYNATL) to clear the proposed soil boring locations of underground utilities and structures. Various sewer lines and a telecommunications line were identified in the vicinity of the proposed TCUs. Sample locations were established in areas that did not conflict with subsurface structures or utilities. The Geophysical Survey Report is presented in *Attachment 1*. Representative photographs of the field investigation activities are included in *Attachment 2*.

According to information provided in TCU Installation 28Q, TCU Site Plan A030.00, prepared by NYCSCA Architecture & Engineering and included in *Attachment 6*, an underground detention basin is located on the northwestern portion of the Site. The underground detention basin was not identified during the geophysical survey. Geophysical Noise Level (GNL) was medium to high at the Site due to surrounding metal such as chain linked fence, metal protector, doors, reinforced concrete slab, and on-going urban environment. The location of the existing underground detention basin is shown on *Figure 1*.

Soil Sampling and Analysis

Waste characterization soil sampling activities were completed on August 12, 2016 by TRC Field Engineer, Mr. James Robinson. Soil samples were collected to characterize subsurface soil at the Site. The sampling frequency (and analyses described below) implemented at the Site satisfies the recommended number of samples for soil exported from a Site found in Table 5.4(e)10 of *New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation 10 (DER-10) Technical Guidance for Site Investigation and Remediation* for up to approximately 200 cubic yards of soil exported from a Site. Presented below is a description of the soil sampling program.

Cascade Drilling, L.P. (Cascade) was on-Site to advance soil borings at the direction of TRC. Three soil borings were advanced in order to log the subsurface lithology and collect samples of subsurface material for analysis for waste characterization parameters. Soil sampling was conducted in accordance with the procedures set forth in the NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, dated May 2010 (DER-10). The waste characterization investigation is summarized below:

- Cascade advanced three soil borings, identified as TRC-SB-1, TRC-SB-2, and TRC-SB-3 throughout the Site to a maximum depth of five (5)-feet below ground surface (bgs). The approximate locations of the soil borings are shown on the attached *Figure 1*. Representative photographs of the field activities are presented in *Attachment 2*.

- A TRC Field Engineer screened soil cores retrieved during drilling for organic vapors utilizing a portable photoionization detector (PID). Field observations, including any evidence of contamination (i.e., odors, staining, etc.), debris (e.g., concrete, brick, asphalt, wood), PID readings, and geological descriptions of soil in each soil boring were recorded in a field logbook. Groundwater was not encountered in any of the soil borings. Soil boring logs are presented in *Attachment 3*. Following completion of each boring, each borehole was backfilled with drill cuttings and well sand and then the ground surface was restored to original condition.

- One (1) three (3)-part composite soil sample was prepared from the samples collected from each soil boring and one (1) discrete grab soil sample was selected for laboratory analysis from each soil boring (for a total of one composite and three [3] discrete soil samples). There were no elevated concentrations of organic vapors, or other evidence of contamination (i.e., odors, staining, etc.) observed in the soil samples collected from the soil borings.

- The three (3) discrete soil samples for volatile organic compound (VOC) analysis were collected with EnCore® samplers. All other soil samples were collected using dedicated disposable Teflon® scoops. The composite soil sample was combined and homogenized in a disposable low-density polyethylene (LDPE) bag.

- The soil samples collected were containerized in accordance with NYSDEC/United States Environmental Protection Agency (USEPA) protocols. Each container was properly labeled, preserved, and placed in a cooler for transport via courier to Con-Test Analytical Laboratories (Con-Test) in East Longmeadow, MA. Standard chain-of-custody procedures were followed. Con-Test is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory.

- The three (3) discrete soil samples collected were analyzed for Target Compound List (TCL), NYSDEC Commissioner Policy 51 Tables 1, 2 and 3 (CP-51), and New Jersey Direct Contact Soil Remediation Standards (NJDCRS) list VOCs +TICs by USEPA Method 8260C and total petroleum hydrocarbons (TPH) diesel- and gasoline-range organics.

- The composite soil sample was analyzed for TCL, CP-51 and NJDCRS list semi-volatile organic compounds (SVOCs) +TICs by USEPA Method 8270D; Target Analyte List (TAL) and NJDCRS list metals (including cyanide and hexavalent chromium) metals by USEPA Methods 6000/7000; toxicity characteristic leaching procedure (TCLP) Resource Conservation and Recovery Act (RCRA) 8 metals by USEPA Method 1311/6010; herbicides and pesticides by USEPA Methods 8081A and 8151A (TCL plus Silvex); corrosivity by USEPA Method 9040C; reactivity (sulfide and cyanide); ignitability by USEPA Method 1010A; and, polychlorinated biphenyls (PCBs) by EPA Method 8082 for TCL PCBs. The Laboratory Analytical Data Report is presented in *Attachment 4*[1].

SOIL SAMPLING RESULTS

There was no evidence of potential contamination observed in the soil samples other than historic fill material. In general, beneath the asphalt/concrete layer, which ranged in thickness between 8- and 12-inches, tan and dark brown sand, gravel, silt, and fill material, consisting of brick fragments, wood, and glass was encountered in the soil borings. No buried structures were observed. Groundwater was not encountered in the soil borings.

The analytical results were compared to the Unrestricted Use Soil Cleanup Objectives (SCOs) found in 6 NYCRR 375-6 Remedial Program Soil Cleanup Objectives; Supplemental Soil Cleanup Objectives outlined in Table 1 and Soil Cleanup Levels outlined in Tables 2 and 3 of the Commissioner Policy 51 (CP-51), "Soil Cleanup Guidance", dated October 21, 2010 and the NYCRR Part 373; and 40 CFR Part 261 hazardous waste regulatory limit for the characteristic of toxicity, where applicable. While the New Jersey Direct Contact Soil Remediation Standards (NJDCRS) list parameters were reported to satisfy potential soil disposal facilities in New Jersey, TRC has not included comparison of the results to the NJDCRS.

The results of the analyses of the soil samples are presented in Tables 1 through 8. The complete laboratory analytical data reports are presented in *Attachment 4.* A summary of the results of the analyses of the soil samples is presented below.

Volatile Organic Compounds (VOCs) in Soil

[1] The laboratory was unable to report the results for one VOC (1,1,2,2-tetrachloroethene]) and two SVOCs (2,2'-oxybix[1-chloropropane] and acrolein); however, the lack of data for these specific compounds is not anticipated to effect the approval from the selected disposal facility.

No VOCs were detected in any of the samples; however, the laboratory reporting limits for two VOCs: acetone and 1,4-dioxane were above their respective Unrestricted Use SCOs A summary of the analytical results for VOCs in the grab soil samples is presented in *Table 1*.

Semi-volatile Organic Compounds (SVOCs) in Soil
Twenty nine (29) SVOCs were detected in the composite soil sample. Six (6) of these were detected at levels exceeding their respective Unrestricted Use SCOs. Additionally, the laboratory reporting limits for three (3) SVOCs were above their respective Unrestricted Use SCOs. A summary of the analytical results for SVOCs in the composite soil sample is presented in *Table 2*.

Metals in Soil (Including Hexavalent Chromium and Cyanide)
Nineteen (19) metals were detected in the composite soil sample. Five (5) of these metals were detected at levels exceeding their respective Unrestricted Use SCOs. Additionally, the laboratory reporting limit for hexavalent chromium and selenium was above their respective Unrestricted Use SCOs. A summary of the analytical results for metals in the composite soil sample is presented in *Table 3*.

Polychlorinated Biphenyls (PCBs) in Soil
PCBs were not detected in the composite sample; however, the laboratory reporting limits for PCBs were above the Unrestricted Use SCO for total PCBs. A summary of the analytical results for PCBs in the composite soil sample is presented in *Table 4*.

Pesticides and Herbicides in Soil
Nine (9) pesticides were detected in the composite soil sample. Two (2) of these pesticides were detected at levels exceeding their respective Unrestricted Use SCOs. No herbicides were detected above their laboratory reporting limits, which were all below Unrestricted Use SCOs. A summary of the analytical results for pesticides and herbicides in the composite soil sample is presented in *Table 5*.

TCLP Metals in Soil
There were no exceedances of the TCLP regulatory limits for the RCRA 8 metals in the composite soil sample. A summary of the analytical results for TCLP RCRA 8 metals in the composite soil sample is presented in *Table 6*.

Total Petroleum Hydrocarbons (DRO and GRO) in Soil
TPH-GRO was not detected in the soil samples. TPH-DRO was detected in each discrete soil sample at concentrations ranging from 90 to 230 milligrams/kilogram. A summary of the analytical results for TPH in the soil samples is presented in *Table 7*.

Generic Waste Characterization Parameters in Soil
Reactive cyanide and reactive sulfide were not detected in the composite soil sample. The composite soil sample had a pH of 9 and was not characterized as ignitable. It is anticipated that these results will not impact potential soil disposal options. A summary of the analytical results for the generic waste characterization samples is presented in *Table 8*.

SUMMARY AND CONCLUSIONS

In summary, no visual or olfactory evidence of potential contamination was observed in the soil boring samples other than historic fill materials. No VOCs, PCBs, or herbicides were detected at concentrations exceeding the Unrestricted Use SCOs. Several SVOCs, metals, and pesticides were detected at

concentrations exceeding Unrestricted Use SCOs. There were no exceedances of the TCLP regulatory limits for metals in the composite soil sample.

Based on the results of the soil characterization, the material characterized by the soil borings appears to consist of non-hazardous excavated material. Prior to off-Site disposal of excess soil generated through future development of the Site, the accepting facility should be provided with the attached analytical data and the accepting facility should provide written confirmation that the facility is permitted to accept the material. In accordance with standard NYCSCA procedures, any exposed soil (landscaped areas) should be covered by a minimum 2-foot thick layer of environmentally clean fill. Any suspect asbestos-containing materials, lead-based paint, or PCB-containing materials, including buried structures, affected by Site development should be properly managed if encountered during such activities.

This investigation did not address deep soil or groundwater as they are not anticipated to be disturbed by the proposed redevelopment of the Site.

An architectural review indicating that asbestos-containing material was not specified, noted, or referenced within the site plans for the construction of the existing school facility is included as *Attachment 5*. The TCU Installation drawing provided to TRC is presented as *Attachment 6*. TRC did not perform an asbestos-related investigation given this letter and the age of the school building.

Please do not hesitate to contact us if you have any questions.

Sincerely,
TRC Engineers, Inc.

Jennifer Miranda
Lead Environmental Scientist

James Robinson
Junior Engineer

cc: A. Ciecierska; M. Sherwood, NYCSCA

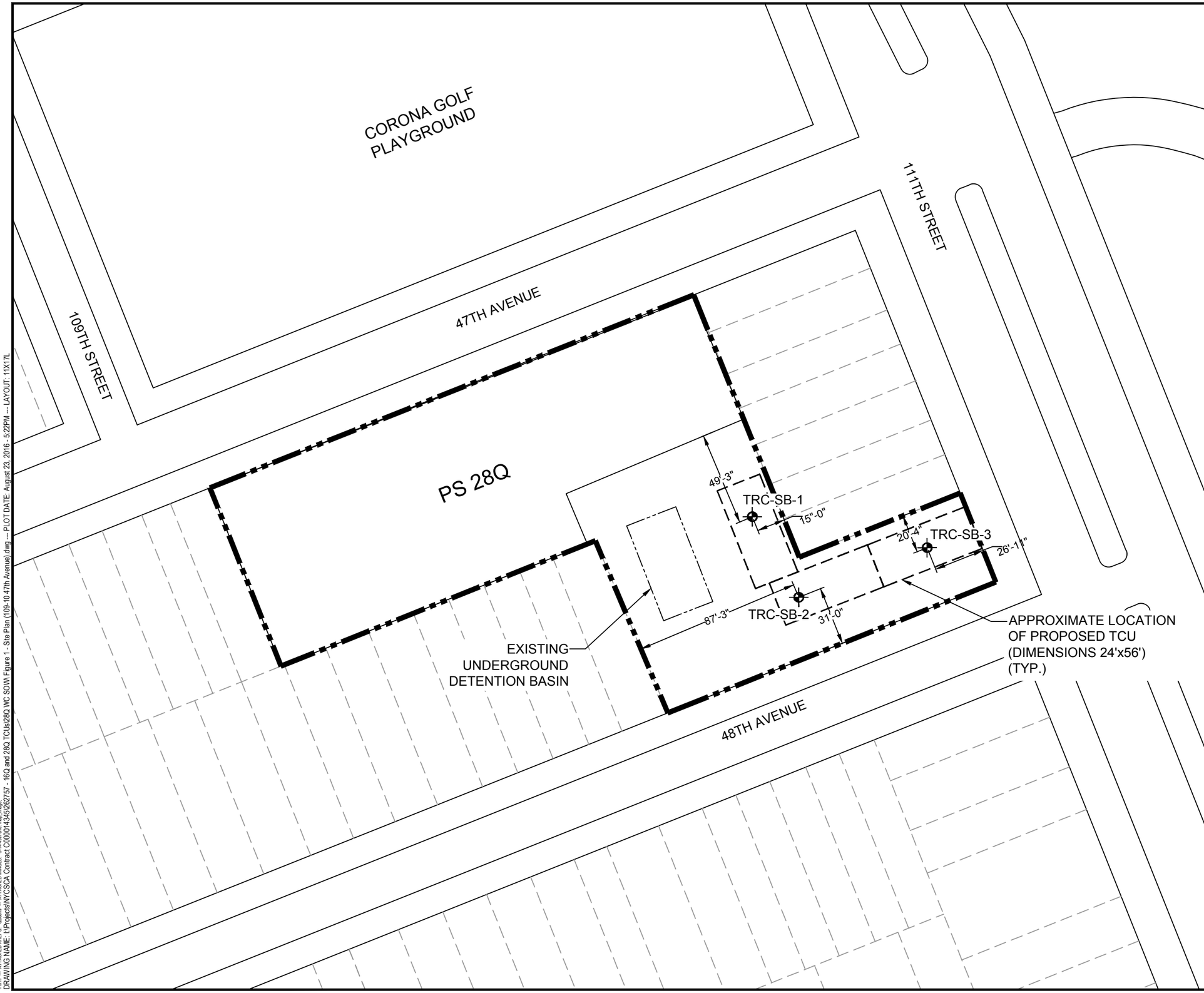
Enclosures:

Figure
Figure 1 – Site Plan

Tables
Table 1 – Summary of Soil Sampling Analytical Results for Volatile Organic Compounds plus TICs
Table 2 – Summary of Soil Sampling Analytical Results for Semi-Volatile Organic Compounds plus TICs
Table 3 – Summary of Soil Sampling Analytical Results for Metals Including Cyanide and Hexavalent Chromium
Table 4 – Summary of Soil Sampling Analytical Results for Polychlorinated Biphenyls
Table 5 – Summary of Soil Sampling Analytical Results for Pesticides and Herbicides
Table 6 – Summary of Soil Sampling Analytical Results for Toxicity Characteristic Leaching Procedure – Metals
Table 7 – Summary of Soil Sampling Analytical Results for Total Petroleum Hydrocarbons
Table 8 – Summary of Soil Sampling Analytical Results for Generic Waste Characterization Parameters

Attachments
Attachment 1 – Geophysical Survey Report
Attachment 2 – Photograph Log
Attachment 3 – Soil Boring Logs
Attachment 4 – Laboratory Analytical Data Report
Attachment 5 – Architectural Review for Asbestos-Containing Materials
Attachment 6 – TCU Installation 28Q, TCU Site Plan A030.00

FIGURE



LEGEND:

	SITE BOUNDARY
	LOT BOUNDARY
TRC-SB-X	SOIL BORING LOCATION AND IDENTIFICATION NUMBER
TCU	TEMPORARY CLASSROOM UNIT

N

SOURCE:
BLOCK AND LOT BOUNDARIES DEPICTED FROM WWW.PROPERTYSHARK.COM

0 50' 100'

SCALE: 1" = 50'
SHEET SIZE: 11" X 17"

PROJECT:
NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
PS 28Q - 109-10 47TH AVENUE
BLOCK: 2003, LOT: 23
QUEENS, NEW YORK 11368

TITLE:

SITE PLAN

DRAWN BY:	RN	PROJ NO.:	262757.0000.0000
CHECKED BY:	JR		
APPROVED BY:	LM		**FIGURE 1**
DATE:	AUGUST 2016		

TRC
1430 Broadway
10th Floor
New York, NY 10018
Phone: 212.221.7822

FILE NO.: Figure 1 - Site Plan (109-10 47th Avenue).dwg

11x17 -- ATTACHED XREFS: Queens -- ATTACHED IMAGES: 5-14 49th ave. map_image
DRAWING NAME: I:\Projects\NYCSCA Contract C000014345\262757 - 16Q and 28Q TCUs\28Q WC SGW\ Figure 1 - Site Plan (109-10 47th Avenue).dwg -- PLOT DATE: August 23, 2016 - 5:22PM -- LAYOUT: 11X17L

TABLES

Table 1
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Volatile Organic Compounds plus TICs
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

			SAMPLE NAME	TRC-SB-1		TRC-SB-2		TRC-SB-3	
			LAB SAMPLE ID	16H0623-01		16H0623-02		16H0623-03	
			SAMPLE DEPTH	(0-5')		(0-5')		(0-5')	
			DILUTION FACTOR	1		1		1	
			DATE SAMPLE COLLECTED	8/12/2016		8/12/2016		8/12/2016	
VOLATILE ORGANIC COMPOUNDS (VOCs)	Unrestricted Use SCO (mg/kg)	CP-51 Table 1 SSCO - Residential (mg/kg)	CP-51 Table 2+3 SCL (mg/kg)	Result (mg/kg)		Result (mg/kg)		Result (mg/kg)	
1,1,1-Trichloroethane	0.68	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,1,2,2-Tetrachloroethane	NC	35	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC	100	NC	<0.012	U	<0.012	U	<0.012	U
1,1,2-Trichloroethane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,1-Dichloroethane	0.27	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,1-Dichloroethene	0.33	NC	NC	<0.0047	U	<0.0049	U	<0.0047	U
1,2,3-Trichlorobenzene	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,2,3-Trichloropropane	NC	80	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,2,4-Trichlorobenzene	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,2,4-Trimethylbenzene	3.6	NC	3.6	<0.0023	U	<0.0024	U	<0.0024	U
1,2-Dibromo-3-chloropropane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,2-Dibromoethane (EDB)	NC	NC	NC	<0.0012	U	<0.0012	U	<0.0012	U
1,2-Dichlorobenzene	1.1	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,2-Dichloroethane	0.02	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,2-Dichloropropane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,3,5-Trimethylbenzene	8.4	NC	8.4	<0.0023	U	<0.0024	U	<0.0024	U
1,3-Dichlorobenzene	2.4	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,3-Dichloropropane	NC	NC	NC	<0.0012	U	<0.0012	U	<0.0012	U
1,4-Dichlorobenzene	1.8	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
1,4-Dioxane	0.1	NC	NC	***<0.12***	***U***	***<0.12***	***U***	***<0.12***	***U***
2-Butanone (MEK)	0.12	100	NC	<0.047	U	<0.049	U	<0.047	U
2-Hexanone (MBK)	NC	NC	NC	<0.023	U	<0.024	U	<0.024	U
4-Methyl-2-Pentanone	NC	NC	NC	<0.023	U	<0.024	U	<0.024	U
Acetone	0.05	NC	NC	***<0.12***	***U***	***<0.12***	***U***	***<0.12***	***U***
Acrylonitrile	NC	NC	NC	<0.0070	U	<0.0073	U	<0.0071	U
Benzene	0.06	NC	0.06	<0.0023	U	<0.0024	U	<0.0024	U
Bromochloromethane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Bromodichloromethane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Bromoform	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Bromomethane	NC	NC	NC	<0.012	R-05, U	<0.012	R-05, U	<0.012	R-05, U
Carbon Disulfide	NC	100	NC	<0.0070	R-05, U	<0.0073	R-05, U	<0.0071	R-05, U
Carbon Tetrachloride	0.76	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Chlorobenzene	1.1	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Chloroethane	NC	NC	NC	<0.023	U	<0.024	U	<0.024	U
Chloroform	0.37	NC	NC	<0.0047	U	<0.0049	U	<0.0047	U
Chloromethane	NC	NC	NC	<0.012	U	<0.012	U	<0.012	U
cis-1,2-Dichloroethene	0.25	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
cis-1,3-Dichloropropene	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Cyclohexane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Dibromochloromethane	NC	NC	NC	<0.0012	U	<0.0012	U	<0.0012	U
Dichlorodifluoromethane (Freon 12)	NC	NC	NC	<0.023	V-05, U	<0.024	V-05, U	<0.024	V-05, U
Ethyl Acetate	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Ethylbenzene	1	NC	1	<0.0023	U	<0.0024	U	<0.0024	U
Isopropylbenzene	NC	100	2.3	<0.0023	U	<0.0024	U	<0.0024	U
m/p-Xylene	NC(1)	NC	NC(2)	<0.0047	U	<0.0049	U	<0.0047	U
Methyl acetate	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Methyl tert-butyl ether	0.93	NC	0.93	<0.0047	U	<0.0049	U	<0.0047	U
Methylcyclohexane	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Methylene chloride	0.05	NC	NC	<0.023	U	<0.024	U	<0.024	U
n-Butylbenzene	12	NC	12	<0.0023	U	<0.0024	U	<0.0024	U
n-Propylbenzene	3.9	NC	3.9	<0.0023	U	<0.0024	U	<0.0024	U
o-Xylene	NC(1)	NC	NC(2)	<0.0023	U	<0.0024	U	<0.0024	U
p-Isopropyltoluene (p-Cymene)	NC	100	10	<0.0023	U	<0.0024	U	<0.0024	U
sec-Butylbenzene	11	NC	11	<0.0023	U	<0.0024	U	<0.0024	U
Styrene	NC	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
tert-Butyl Alcohol (TBA)	NC	NC	NC	<0.047	U	<0.049	U	<0.047	U
Tert-Butylbenzene	5.9	NC	5.9	<0.0023	U	<0.0024	U	<0.0024	U
Tetrachloroethene	1.3	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Toluene	0.7	NC	0.7	<0.0023	U	<0.0024	U	<0.0024	U
trans-1,2-Dichloroethene	0.19	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
trans-1,3-Dichloropropene	NC	NC	NC	<0.0012	U	<0.0012	U	<0.0012	U
Trichloroethene	0.47	NC	NC	<0.0023	U	<0.0024	U	<0.0024	U
Trichlorofluoromethane	NC	NC	NC	<0.012	U	<0.012	U	<0.012	U
Vinyl chloride	0.02	NC	NC	<0.012	U	<0.012	U	<0.012	U
Xylenes (Total)	0.26	NC	0.26	<0.0070	U	<0.0073	U	<0.0071	U
TENTATIVELY IDENTIFIED COMPOUNDS									
1,2,3,4-Tetrachlorobenzene	NC	NC	NC	ND	U	ND	U	ND	U
2,4-Dichloroaniline	NC	NC	NC	ND	U	ND	U	ND	U
2,6-Dinitrotoluene	NC	NC	NC	ND	U	ND	U	ND	U
3,4-Dichloroaniline	NC	NC	NC	ND	U	ND	U	ND	U
Chloroacetamide	NC	NC	NC	ND	U	ND	U	ND	U
Methanol	NC	NC	NC	ND	U	ND	U	ND	U
Pentachlorobenzene	NC	NC	NC	ND	U	ND	U	ND	U

Notes:
mg/kg - milligrams per kilogram
U - Non-detect
NC - No criterion
ND - Not detected
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51
SSCO - Supplemental Soil Cleanup Objectives
TICs - Tentatively Identified Compounds
Light gray shade with black bolded text values exceed SCL, Residential SSCO and/or Unrestricted Use SCOs
Bolded Italic text values indicate the laboratory reporting limit is above SCL, Residential SSCO and/or Unrestricted Use
(1) - There is no SCO for m/p xylene or o-xylene. The SCO for total xylenes is 0.26 mg/kg.
(2) - There is no SCL for m/p xylene or o-xylene. The SCL for total xylenes is 0.26 mg/kg.
R-05 - Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05 - Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Table 2
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Semivolatile Organic Compounds plus TICs
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

			SAMPLE NAME LAB SAMPLE ID DILUTION FACTOR DATE SAMPLE COLLECTED	TRC-SB-Comp 16H0623-04 1 8/12/2016	
SEMIVOLATILE ORGANIC COMPOUNDS (SVOCs)	Unrestricted Use SCO (mg/kg)	CP-51 Table 1 SSCO - Residential (mg/kg)	CP-51 Table 2+3 SCL (mg/kg)	Result (mg/kg)	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	<0.39	U
1,2-Diphenylhydrazine	NC	NC	NC	<0.39	U
2,3,4,6-Tetrachlorophenol	NC	NC	NC	<0.76	U
2,4,5-Trichlorophenol	NC	100	NC	<0.39	U
2,4,6-Trichlorophenol	NC	NC	NC	<0.39	U
2,4-Dichlorophenol	NC	100	NC	<0.39	U
2,4-Dimethylphenol	NC	NC	NC	<0.39	U
2,4-Dinitrophenol	NC	100	NC	<0.75	U
2,4-Dinitrotoluene	NC	NC	NC	<0.39	U
2,6-Dinitrotoluene	NC	1.03	NC	<0.39	U
2-Chloronaphthalene	NC	NC	NC	<0.39	U
2-Chlorophenol	NC	100	NC	<0.39	U
2-Methylnaphthalene	NC	0.41	NC	0.11	J
2-Methylphenol	0.33	NC	NC	***<0.39***	***U***
2-Nitroaniline	NC	NC	NC	<0.39	V-20, U
2-Nitrophenol	NC	NC	NC	<0.39	U
3,3'-Dichlorobenzidine	NC	NC	NC	<0.19	R-05, U
3/4-Methylphenol	0.33	NC	NC	<0.39	U
3-Nitroaniline	NC	NC	NC	<0.39	U
4,6-Dinitro-2-methylphenol	NC	NC	NC	<0.39	U
4-Bromophenylphenylether	NC	NC	NC	<0.39	U
4-Chloro-3-methylphenol	NC	NC	NC	<0.75	U
4-Chloroaniline	NC	100	NC	<0.75	R-05, U
4-Chlorophenylphenylether	NC	NC	NC	<0.39	U
4-Nitroaniline	NC	NC	NC	<0.39	U
4-Nitrophenol	NC	NC	NC	<0.75	V-20, U
Acenaphthene	20	NC	20	0.21	
Acenaphthylene	100	NC	100	0.086	J
Acetophenone	NC	NC	NC	<0.39	U
Aniline	NC	48	NC	<0.39	U
Anthracene	100	NC	NC	0.53	
Atrazine	NC	NC	NC	<0.76	U
Benzaldehyde	NC	NC	NC	<0.39	V-20, U
Benzidine	NC	NC	NC	<0.75	V-04, V-05, U
Benzo(a)anthracene	1	NC	1	**1.8**	
Benzo(a)pyrene	1	NC	1	**2.0**	
Benzo(b)fluoranthene	1	NC	1	**2.5**	
Benzo(g,h,i)perylene	100	NC	100	1.1	
Benzo(k)fluoranthene	0.8	NC	0.8	**0.89**	
Benzoic Acid	NC	100	NC	<1.1	U
Biphenyl	NC	NC	NC	<0.76	U
Bis(2-chloroethoxy)methane	NC	NC	NC	<0.39	U
Bis(2-chloroethyl)ether	NC	50	NC	<0.39	U
bis(2-ethylhexyl)phthalate	NC	NC	NC	0.43	
Butylbenzylphthalate	NC	100	NC	<0.39	U
Caprolactam	NC	NC	NC	<0.39	U
Carbazole	NC	NC	NC	0.21	
Chrysene	1	NC	1	**1.8**	
Dibenz(a,h)anthracene	0.33	NC	0.33	0.28	
Dibenzofuran	7	NC	NC	0.21	J
Diethylphthalate	NC	100	NC	<0.39	U
Dimethyl phthalate	NC	100	NC	<0.39	U
Di-n-butyl phthalate	NC	100	NC	<0.39	U
Di-n-octyl phthalate	NC	100	NC	<0.39	U
Fluoranthene	100	NC	100	4.2	
Fluorene	30	NC	30	0.28	
Hexachlorobenzene	0.33	0.41	NC	***<0.39***	***U***
Hexachlorobutadiene	NC	NC	NC	<0.39	U
Hexachlorocyclopentadiene	NC	NC	NC	<0.39	U
Hexachloroethane	NC	NC	NC	<0.39	U
Indeno(1,2,3-cd)pyrene	0.5	NC	0.5	**1.1**	
Isophorone	NC	100	NC	<0.39	U
Naphthalene	12	NC	12	0.20	
Nitrobenzene	NC	3.7	NC	<0.39	U
N-Nitrosodimethylamine	NC	NC	NC	<0.39	V-20, U
N-Nitrosodi-n-propylamine	NC	NC	NC	<0.39	V-20, U
N-Nitrosodiphenylamine	NC	NC	NC	<0.39	U
Pentachloronitrobenzene	NC	NC	NC	<0.39	V-16, U
Pentachlorophenol	0.8	NC	NC	<0.39	U
Phenanthrene	100	NC	100	3.6	
Phenol	0.33	NC	NC	***<0.39***	***U***
Pyrene	100	NC	100	3.3	
TENTATIVELY IDENTIFIED COMPOUNDS					
2-Phenylnaphthalene	NC	NC	NC	0.3	
9,10-Anthracenedione	NC	NC	NC	0.37	
9H-Fluoren-9-one	NC	NC	NC	0.24	
Benzo[e]pyrene	NC	NC	NC	1.9	
Dibenzothiophene	NC	NC	NC	0.2	
Phenanthrene, 1-methyl-	NC	NC	NC	0.48	
Phenanthrene, 2-methyl-	NC	NC	NC	0.38	
Phenanthrene, 3,6-dimethyl-	NC	NC	NC	0.52	
Sulfur	NC	NC	NC	0.23	

Notes:
mg/kg - milligrams per kilogram
U - Non-detect
NC - No criterion
ND - Not detected
J - Estimated Value
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51
SSCO - Supplemental Soil Cleanup Objective
TICs - Tentatively Identified Compounds
Light gray shade with black bolded text values exceed SCL, Residential SSCO and/or Unrestricted Use SCOs

Bolded Italic text values indicate the laboratory reporting limit is above SCL, Residential SSCO and/or Unrestricted Use SCOs
R-05 - Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04 - Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05 - Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20 - Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Table 3
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Metals including Cyanide and Hexavalent Chromium
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

	SAMPLE NAME	TRC-SB-Comp	
	LAB SAMPLE ID	16H0623-04	
	DILUTION FACTOR	1	
	DATE SAMPLE COLLECTED	8/12/2016	
METALS AND CYANIDE	Unrestricted Use SCO (mg/kg)	Result (mg/kg)	
Aluminum	NC	7,500	
Antimony	NC	<2.7	U
Arsenic	13	8.7	
Barium	350	***710***	
Beryllium	7.2	<0.27	U
Cadmium	2.5	1.6	
Calcium	NC	25,000	
Chromium	30	26	
Chromium, hexavalent	1	***<1.8***	***DL-03, U***
Cobalt	NC	7.3	
Copper	50	**350**	
Cyanide	27	0.56	
Iron	NC	24,000	
Lead	63	**700**	
Magnesium	NC	3,100	
Manganese	1,600	320	
Mercury	0.18	**0.57**	
Nickel	30	21	
Potassium	NC	1,400	
Selenium	3.9	***<5.5***	***U***
Silver	2	<0.55	U
Sodium	NC	560	
Thallium	NC	<2.7	U
Vanadium	NC	30	
Zinc	109	**680**	

Notes:
mg/kg - milligrams per kilogram
J - Estimated Value
NC - No criterion
U - Non-detect
Light gray shade with black bolded text values exceed Unrestricted Use SCO
Bolded Italic text values indicate the laboratory reporting limit is above Unrestricted Use SCO
DL-03 - Elevated reporting limit due to matrix.

Table 4
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Polychlorinated Biphenyls
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

	SAMPLE NAME	TRC-SB-Comp	
	LAB SAMPLE ID	16H0623-04	
	DILUTION FACTOR	1	
	DATE SAMPLE COLLECTED	8/12/2016	
POLYCHLORINATED BIPHENYLS (PCBs)	Unrestricted Use SCO (mg/kg)	Result (mg/kg)	
Aroclor 1016	NC	***<0.11***	***U***
Aroclor 1221	NC	***<0.11***	***U***
Aroclor 1232	NC	***<0.11***	***U***
Aroclor 1242	NC	***<0.11***	***U***
Aroclor 1248	NC	***<0.11***	***U***
Aroclor 1254	NC	***<0.11***	***U***
Aroclor 1260	NC	***<0.11***	***U***
Aroclor 1262	NC	***<0.11***	***U***
Aroclor 1268	NC	***<0.11***	***U***
Total PCBs*	0.1	***<0.11***	***U***

Notes:
mg/kg - milligrams per kilogram
NC - No criterion
U - Non-detect
*Unrestricted Use SCO for total PCBs is 0.1 mg/kg.
Light gray shade with black bolded text values exceed Unrestricted Use SCO
Bolded Italic text values indicate the laboratory reporting limit is above Unrestricted Use SCO

Table 5
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Pesticides and Herbicides
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

	SAMPLE NAME	TRC-SB-Comp	
	LAB SAMPLE ID	16H0623-04	
	DILUTION FACTOR	1	
	DATE SAMPLE COLLECTED	8/12/2016	
PESTICIDES	Unrestricted Use SCO (mg/kg)	Result (mg/kg)	
alpha-Chlordane	0.094	0.010	
gamma-Chlordane	NC	0.0094	
Alachlor	NC	<0.023	U
Aldrin	0.005	0.00054	P-02, J
alpha-BHC	0.02	<0.0057	U
beta-BHC	0.036	<0.0057	U
delta-BHC	0.04	<0.0057	U
gamma-BHC (Lindane)	0.1	<0.0023	U
Chlordane	0.094	0.065	
4,4'-DDD	0.0033	0.0012	J
4,4'-DDE	0.0033	***0.0036***	***P-02, J***
4,4'-DDT	0.0033	***0.0047***	***P-01***
Dieldrin	0.005	0.0032	J
Endosulfan I	2.4	<0.0057	U
Endosulfan II	2.4	<0.0091	U
Endosulfan Sulfate	2.4	<0.0091	U
Endrin	0.014	<0.0091	U
Endrin aldehyde	NC	<0.045	DL-03, U
Endrin ketone	NC	<0.0091	U
Heptachlor	0.042	<0.0057	U
Heptachlor epoxide	NC	0.00096	J
Hexachlorobenzene	0.33	<0.0068	U
Methoxychlor	NC	<0.057	U
Toxaphene	NC	<0.11	U
HERBICIDES			
2,4-D	NC	<28	U
2,4-DB	NC	<28	U
2,4,5-TP (Silvex)	3,800	<2.8	U
2,4,5-T	NC	<2.8	U
Dalapon	NC	<71	U
Dicamba	NC	<2.8	U
Dichloroprop	NC	<28	U
Dinoseb	NC	<14	U
MCPA	NC	<2800	U
MCPP	NC	<2800	U

Notes:
mg/kg - milligrams per kilogram
J - Estimated Value
NC - No criterion
U - Non-detect
Light gray shade with black bolded text values exceed Unrestricted Use SCO
DL-03 - Elevated reporting limit due to matrix.
P-01 - Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
P-02 - Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Table 6
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Toxicity Characteristic Leaching Procedure - Metals
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

	SAMPLE NAME	TRC-SB-Comp	
	LAB SAMPLE ID	16H0623-04	
	DILUTION FACTOR	1	
	DATE SAMPLE COLLECTED	8/12/2016	
TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) - METALS	Toxicity Level (mg/L)	Result (mg/L)	
Arsenic	5.0	<0.010	U
Barium	100.0	0.60	
Cadmium	1.0	0.0088	
Chromium	5.0	<0.010	U
Lead	5.0	0.18	
Mercury	0.2	<0.00010	U
Selenium	1.0	<0.050	MS-14, U
Silver	5.0	<0.0050	U

Notes:
mg/L - milligrams per liter
U - Non-detect
MS-14 - Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Table 7
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Total Petroleum Hydrocarbons
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

SAMPLE NAME	TRC-SB-1		TRC-SB-2		TRC-SB-3	
LAB SAMPLE ID	16H0623-01		16H0623-02		16H0623-03	
DILUTION FACTOR	1		1		1	
DATE SAMPLE COLLECTED	8/12/2016		8/12/2016		8/12/2016	
TOTAL PETROLEUM HYDROCARBONS	Result (mg/kg)		Result (mg/kg)		Result (mg/kg)	
Gasoline Range Organics (GRO)	<1.3	U	<1.6	U	<1.2	U
Diesel Range Organics (DRO)	160		230		90	

Notes:
mg/kg - milligrams per kilogram
U - Non-detect

Table 8
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Generic Waste Characterization Parameters
Proposed Temporary Classroom Units for Pre-K Facility
109-10 47th Avenue, Corona, Queens, NY 11368

SAMPLE NAME	TRC-SB-Comp	
LAB SAMPLE ID	16H0623-04	
DILUTION FACTOR	1	
DATE SAMPLE COLLECTED	8/12/2016	
PARAMETERS	Result (mg/kg)	
Ignitability	Absent	
Reactive Cyanide	<3.9	U
Reactive Sulfide	<20	U
pH	9.0	

Notes:
mg/kg - milligrams per kilogram
J - Estimated Value
U - Non-detect

ATTACHMENT 1

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

PUBLIC SCHOOL PS 28Q

109-10 47TH AVENUE
QUEENS, NEW YORK 11368

NOVA PROJECT NUMBER
16-0370

DATED
AUGUST 15, 2016

PREPARED FOR:

TRC
Results you can rely on

1430 BROADWAY, 10TH FLOOR
NEW YORK, NEW YORK 10018

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions

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August 15, 2016

Lindsay Metcalf
Project Manager
TRC
1430 Broadway, 10th Floor
New York, New York 10018
Phone: 212-221-7822
Cell: 914-420-9649

Re: Geophysical Engineering Survey (GES) Report
Public School PS 28Q
109-10 47TH Avenue
Queens, New York 11368

Dear Ms. Metcalf:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: Public School PS 28Q: 109-10 47th Avenue, Queens, New York (the "Site"). Please see attached Site Location and Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of a Ground Penetrating Radar (GPR) survey at the site. The purpose of this survey is to locate and identify USTs, anomalies, utilities and other substructures and to clear and mark proposed environmental test pit areas on August 12th, 2016.

The equipment selected for this investigation was a Noggin 250 MHz ground penetrating radar (GPR) shielded antenna and 3M DYNATL.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

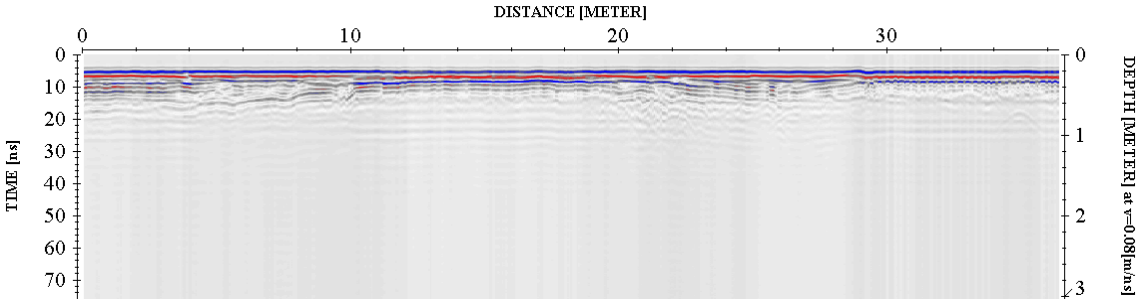
Specified drilling locations was screened using the GPR and inspected for reflections, which could be indicative of substructures and utilities within the subsurface.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of concrete and asphalt surfaces.

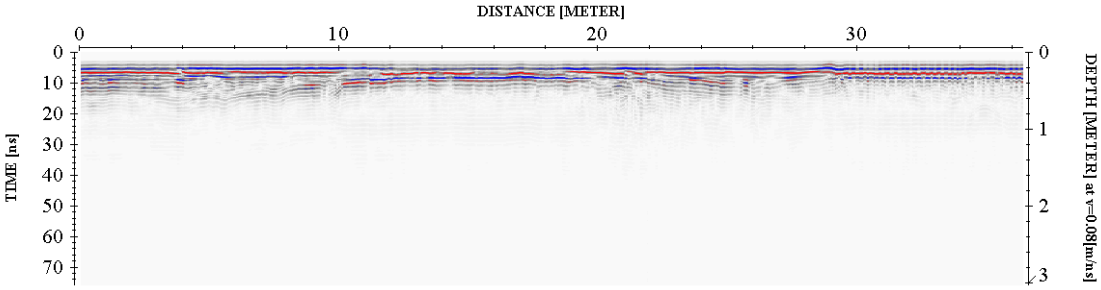
DATA PROCESSING

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

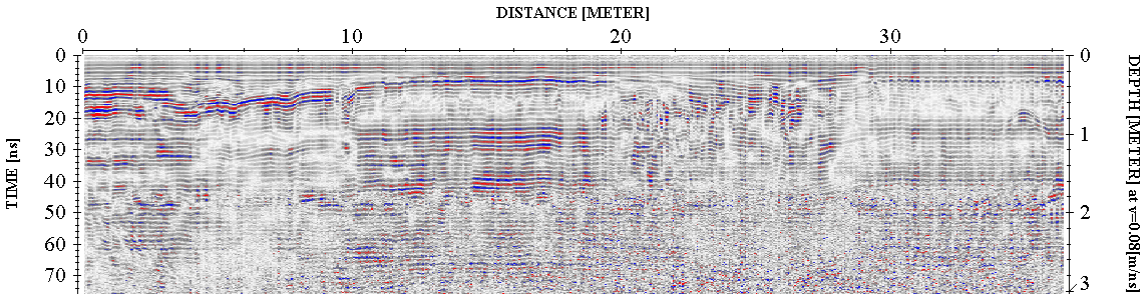
Step 1. Import raw RAMAC data to standard processing format



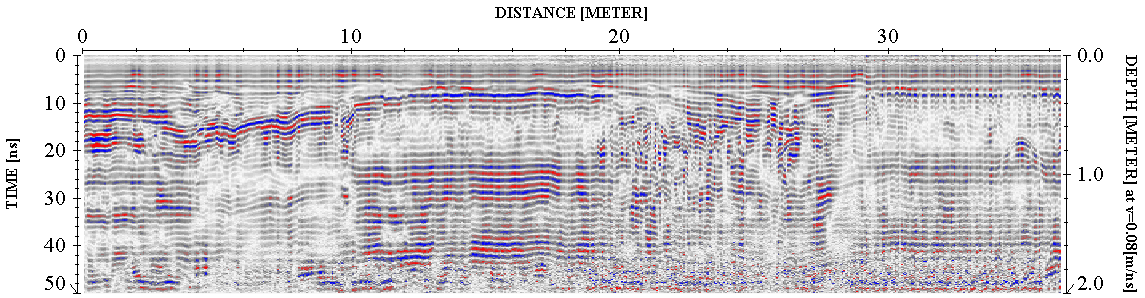
Step 2. Remove instrument noise *(dewow)*



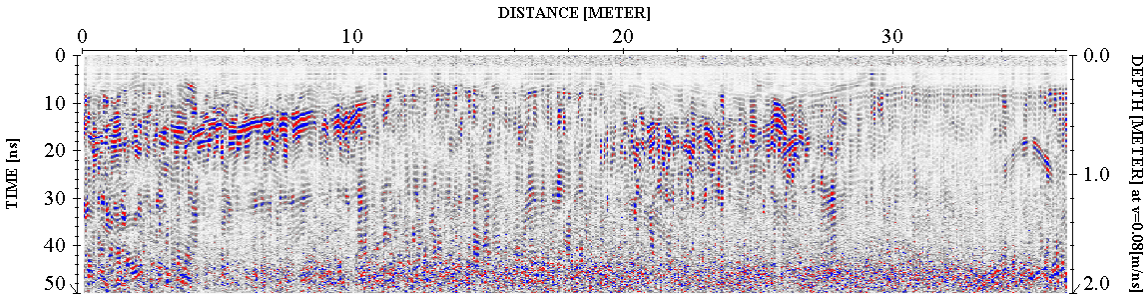
Step 3. Correct for attenuation losses *(energy decay function)*



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



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



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

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Sunny

Temp: 89 Degrees (F).

Surface: Concrete and asphalt surfaces

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium to high at the site. The noise was due to surrounding metal setting such as chain linked fence and metal protector, doors, reinforced concrete slab and on-going urban environment

RESULTS

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

- GES survey identified scattered anomalies located throughout the project site. These areas were indicated on the on-site markout.
- The GES identified several utilities (water, telecommunication & sewer) lines located along the southern portion of the site facing 47th Avenue.
- NOVA observed multiple storm drains. Nova confirmed that all of the storm drains were interconnected with their final destination to the municipal sewer on 47th Avenue.
- NOVA cleared and marked all of the proposed boring areas.
- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

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

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Engineer

Attachments:
Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images

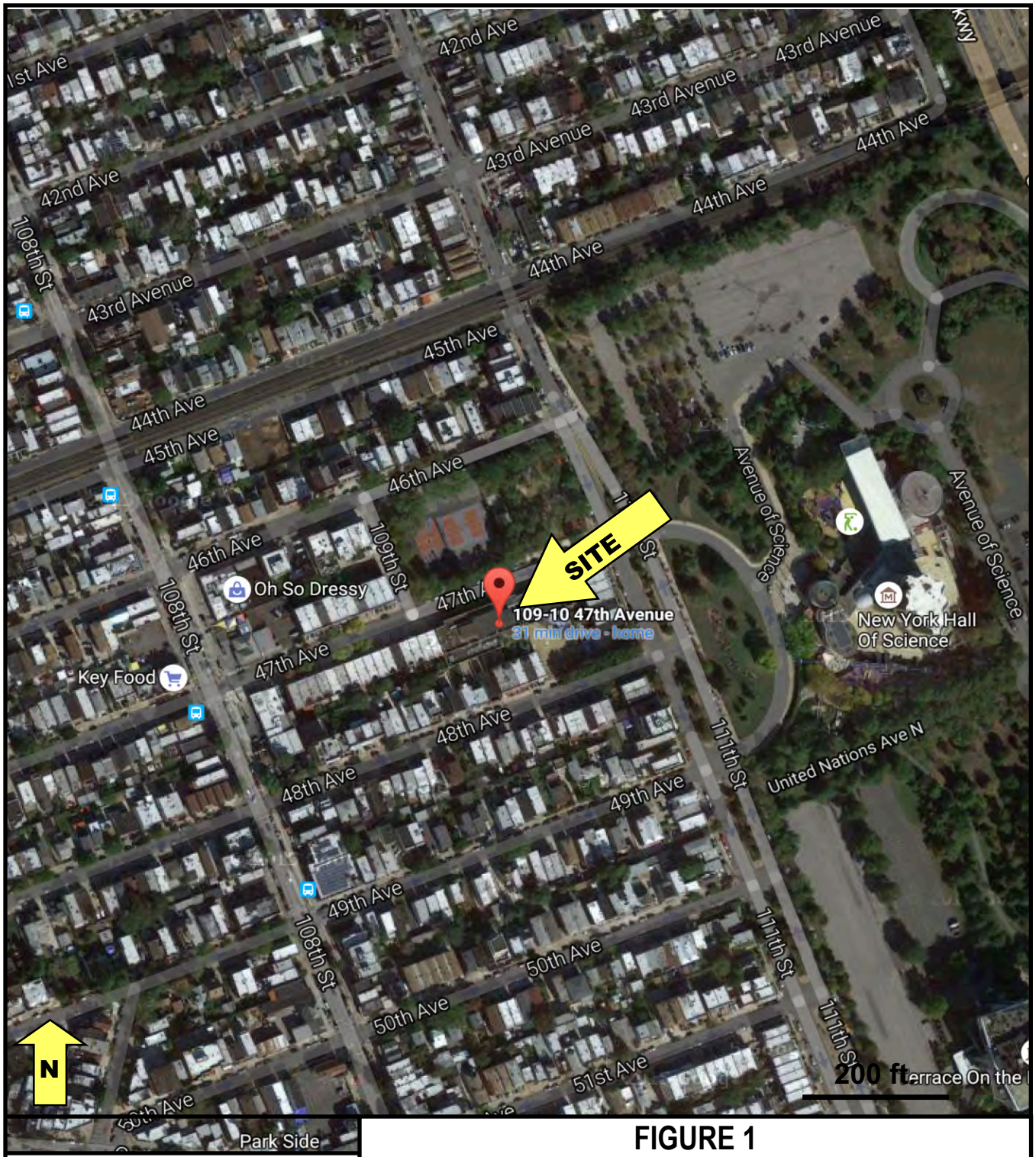


FIGURE 1

SITE LOCATION MAP

NOVA

Geophysical Services

Subsurface Mapping Solutions

56-01 Marathon Pkwy, # 765, Douglaston, NY11362

(347) 556-7787 Fax (718) 261-1528

www.nova-gsi.com

SITE: **Public School PS 28Q**
109-10 47th Avenue
Queens, New York 11368

SCALE: See Map

1- All anomalies were marked in the field.

NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Parkway, # 765
Douglaston, New York11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : **Public School PS 28Q**
109-10 47th Avenue
Queens, New York 11368

CLIENT: **TRC**
DATE: August 12, 2016
Scale See Map

INFORMATION

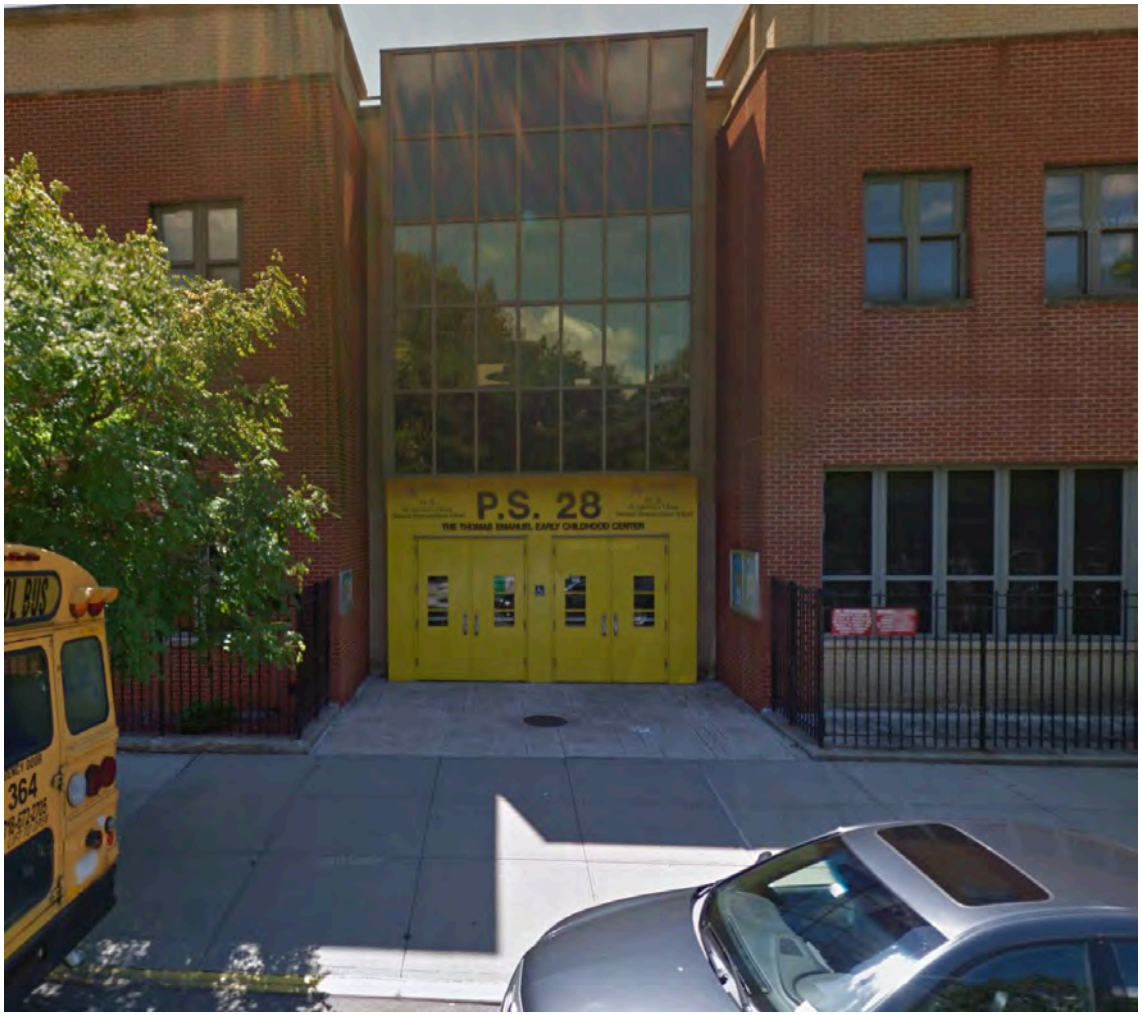
- Survey Area
- Water Line
- Sewer Line
- Electrical Line
- Telecommunication Line

N

60 Ft.

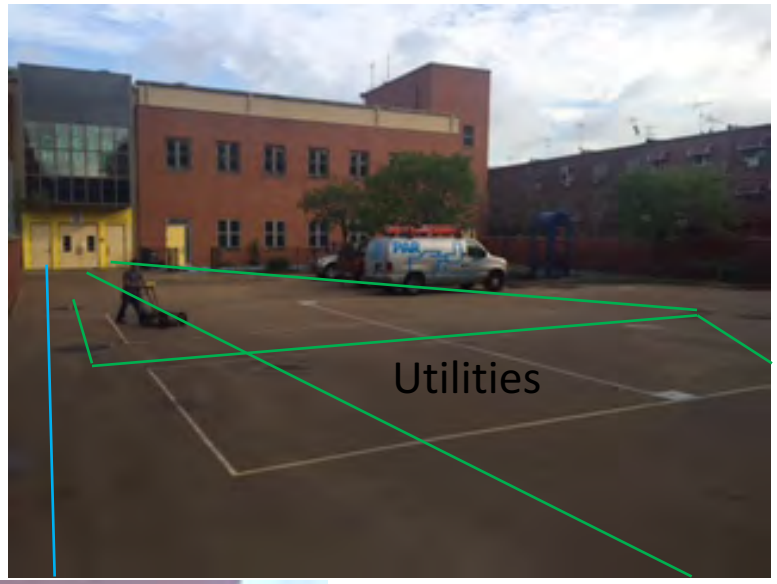
GEOPHYSICAL IMAGES

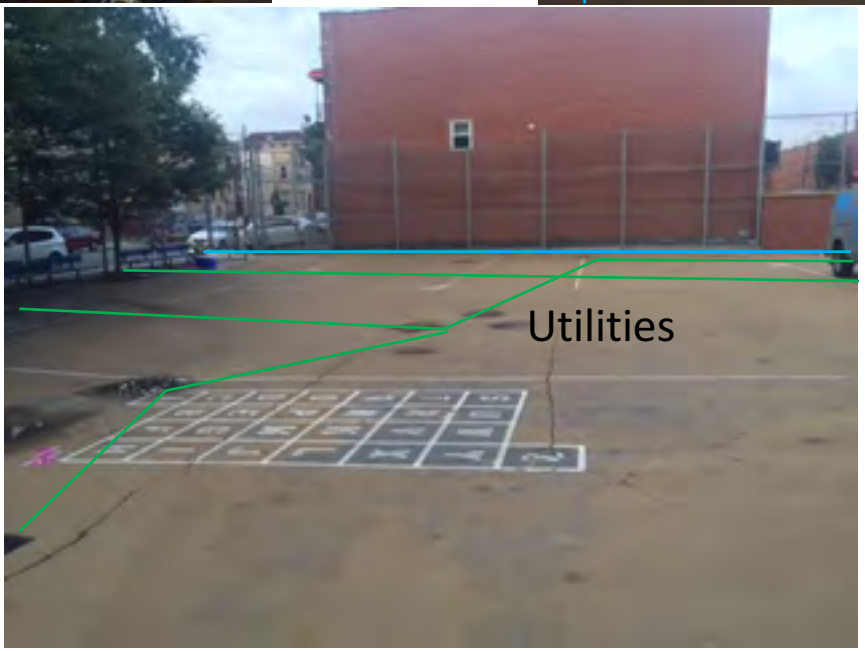
Public School PS 28Q
109-10 47th Avenue
Queens, New York 11368
August 12, 2016



GEOPHYSICAL IMAGES

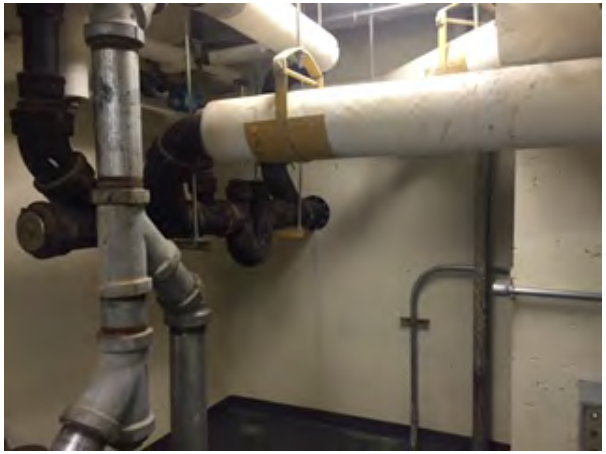
Public School PS 28Q
109-10 47th Avenue
Queens, New York 11368
August 12, 2016

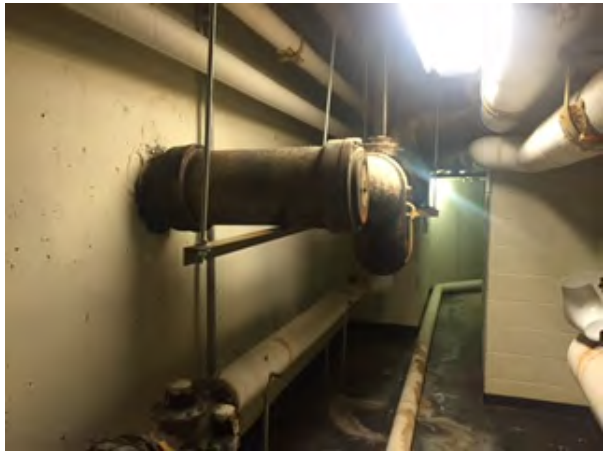




GEOPHYSICAL IMAGES

Public School PS 28Q
109-10 47th Avenue
Queens, New York 11368
August 12, 2016





Strom Drain
Boring Area

ATTACHMENT 2

PHOTOGRAPH LOG

Attachment 3
Photograph Log

Photo 1: View of location TRC-SB-01 (marked in white).

Photo 2: View of soil core from TRC-SB-01.

Photo 3: View of location TRC-SB-02.

Photo 4: View of soil core from TRC-SB-02.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
262757	James Robinson	1 of 2	NYCSCA	109-10 47th Avenue, Corona, Queens, NY 11368

Attachment 3
Photograph Log

Photo 5: View of location TRC-SB-03.

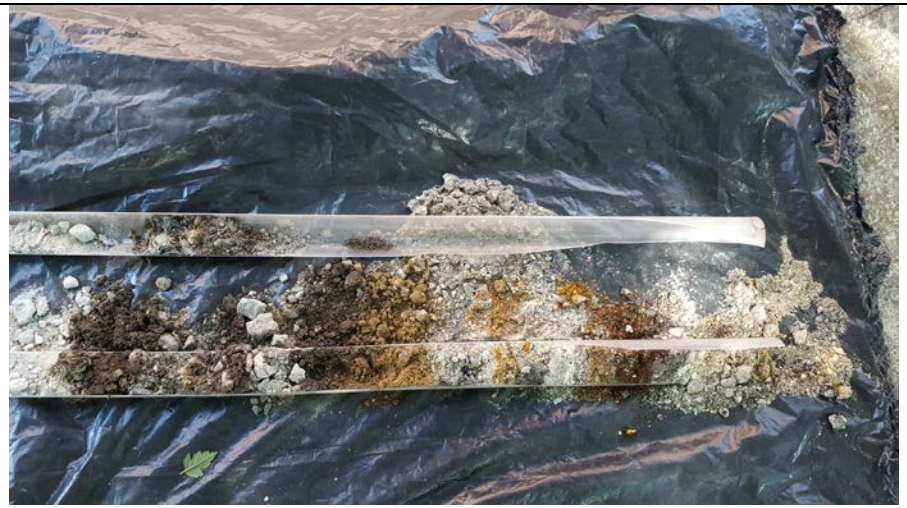


Photo 6: View of soil core from TRC-SB-03.

ATTACHMENT 3

SOIL BORING LOGS

BORING NUMBER: **TRC-SB-01**

PROJECT INFORMATION		BORING INFORMATION			
Project Name:	28Q - Waste Characterization	Boring Depth:	5	Hole Diameter:	2.5
Project Location:	109-10 47th Avenue, Corona, NY 11368	Date Started:	8/12/16	Date Completed:	8/12/16
Project Number:	262757.0000.0000	Coordinate System:			
Client:	NYCSCA	North:	Not Surveyed	East:	Not Surveyed
TRC Eng./Geol:		Vertical Datum:	N/A	Ground Elevation:	Not Surveyed
Checked By:	Emily Ebert				

DRILLING INFORMATION		GROUND WATER OBSERVATIONS			
Drilling Contractor:	Cascade Drilling, L.P.	MEASUREMENT	At Time of Drilling	At End of Drilling	After Drilling
Driller(s):	Quincy Brandt	DATE			
Drilling Method:	Geoprobe	DEPTH (ft.bgs.)			
Equipment/Model:		REFERENCE			
Sampler:	J. Robinson	STABILIZATION	Not Encountered		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	VOC SCREENING RESULTS (ppm)
1	TRC-SB-1		5.0	4.0		0'- 0.5' Black ASPHALT and GRAVEL.	
2						0.5'- 0.83' Tan medium SAND and GRAVEL, dry.	
3						0.83'- 3.16' Tan/brown well graded SAND and GRAVEL, trace wood, dry (fill).	
4						3.16'- 4' Dark gray SAND and GRAVEL, some red brick, moist (fill).	
5							
6						Bottom of borehole at 5.0 feet.	
7							
8							
9							
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33							
34							
35							

Notes: No odors, no staining throughout. Discrete sample (TRC-SB-1) selected for VOCs and TPH at 9:30 AM. Composite sample collected.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 8/31/16
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BORING NUMBER: **TRC-SB-02**

PROJECT INFORMATION		BORING INFORMATION			
Project Name:	28Q - Waste Characterization	Boring Depth:	5	Hole Diameter:	2.5
Project Location:	109-10 47th Avenue, Corona, NY 11368	Date Started:	8/12/16	Date Completed:	8/12/16
Project Number:	262757.0000.0000	Coordinate System:			
Client:	NYCSCA	North:	Not Surveyed	East:	Not Surveyed
TRC Eng./Geol:		Vertical Datum:	N/A	Ground Elevation:	Not Surveyed
Checked By:	Emily Ebert				

DRILLING INFORMATION		GROUND WATER OBSERVATIONS			
Drilling Contractor:	Cascade Drilling, L.P.	MEASUREMENT	At Time of Drilling	At End of Drilling	After Drilling
Driller(s):	Quincy Brandt	DATE			
Drilling Method:	Geoprobe	DEPTH (ft.bgs.)			
Equipment/Model:		REFERENCE			
Sampler:	J. Robinson	STABILIZATION	Not Encountered		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	VOC SCREENING RESULTS (ppm)
1	TRC-SB-2		5.0	3.0		0'- 0.4' Concrete.	
2						0.4'- 0.6' SAND and GRAVEL, some silt, dry.	
3						0.6'- 2.08' Well graded gray and brown SAND and GRAVEL, some silt, dry.	
4						2.08'- 3' Dark brown, black and red sandy SILT with gravel (rounded), trace brick, wood, glass, (fill) slightly moist.	
5							
6						Bottom of borehole at 5.0 feet.	
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35							

Notes: No odors, no staining throughout. Discrete sample (TRC-SB-2) selected for VOCs and TPH at 9:50 AM. Composite sample collected.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 8/31/16
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BORING NUMBER: **TRC-SB-03**

PROJECT INFORMATION		BORING INFORMATION			
Project Name:	28Q - Waste Characterization	Boring Depth:	5	Hole Diameter:	2.5
Project Location:	109-10 47th Avenue, Corona, NY 11368	Date Started:	8/12/16	Date Completed:	8/12/16
Project Number:	262757.0000.0000	Coordinate System:			
Client:	NYCSCA	North:	Not Surveyed	East:	Not Surveyed
TRC Eng./Geol:		Vertical Datum:	N/A	Ground Elevation:	Not Surveyed
Checked By:	Emily Ebert				

DRILLING INFORMATION		GROUND WATER OBSERVATIONS			
Drilling Contractor:	Cascade Drilling, L.P.	MEASUREMENT	At Time of Drilling	At End of Drilling	After Drilling
Driller(s):	Quincy Brandt	DATE			
Drilling Method:	Geoprobe	DEPTH (ft.bgs.)			
Equipment/Model:		REFERENCE			
Sampler:	J. Robinson	STABILIZATION	Not Encountered		

DEPTH (FT.)	SAMPLE NUMBER	SAMPLE TYPE	PENETRATION (FT.)	RECOVERY (FT.)	LITHOLOGY	MATERIAL DESCRIPTION	VOC SCREENING RESULTS (ppm)
1–5	TRC-SB-03(1-4')		5.0	3.0		0'- 0.4' Concrete. 0.4'- 0.58' SAND and GRAVEL, white, dry. 0.58'- 3' Well graded gray and brown SAND and GRAVEL, some silt, trace brick, wood and glass (fill).	

Bottom of borehole at 5.0 feet.

Notes: No odors, no staining throughout. Discrete sample (TRC-SB-3) selected for VOCs and TPH at 10:40 AM. Composite sample collected.

SOIL BORING/WELL COMPLETION WITH NOTES - TRC-STD US.GDT - 8/31/16
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ATTACHMENT 4

LABORATORY ANALYTICAL DATA REPORT

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 17, 2016

Lindsay Metcalf
TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018

Project Location: 109-10 47th Ave, Corona, Queens, NY
Client Job Number:
Project Number: 262757.0000.0000
Laboratory Work Order Number: 16H0623

Enclosed are results of analyses for samples received by the laboratory on August 12, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018
ATTN: Lindsay Metcalf

REPORT DATE: 8/17/2016

PURCHASE ORDER NUMBER: 98853

PROJECT NUMBER: 262757.0000.0000

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16H0623

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 109-10 47th Ave, Corona, Queens, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-SB-1	16H0623-01	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8260C	
TRC-SB-2	16H0623-02	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8260C	
TRC-SB-3	16H0623-03	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8260C	
TRC-SB-Comp	16H0623-04	Soil		SM 2540G	
				SW-846 1030	
				SW-846 1311	
				SW-846 6010C-D	
				SW-846 7196A	
				SW-846 7470A	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8151A	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 6010C-D

Qualifications:

MS-14

Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.

Analyte & Samples(s) Qualified:

Selenium
16H0623-04[TRC-SB-Comp], B156036-MS1

SW-846 7196A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

Hexavalent Chromium
16H0623-04[TRC-SB-Comp]

SW-846 8081B

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

Endrin Aldehyde
16H0623-04[TRC-SB-Comp]

Endrin Aldehyde [2C]
16H0623-04[TRC-SB-Comp]

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

4,4'-DDT [2C]
16H0623-04RE1[TRC-SB-Comp]

P-02

Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.

Analyte & Samples(s) Qualified:

4,4'-DDE
16H0623-04RE1[TRC-SB-Comp]

Aldrin
16H0623-04RE1[TRC-SB-Comp]

SW-846 8151A

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Dalapon [2C]
16H0623-04[TRC-SB-Comp], B156058-BLK1, B156058-BS1, B156058-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Dinoseb [2C]
B156058-BS1, B156058-BSD1

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V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Dinoseb [2C]
B156058-BLK1

SW-846 8260C

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Carbon Disulfide
B156106-BS1, B156106-BSD1

Methyl Acetate
B156106-BS1, B156106-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane
16H0623-01[TRC-SB-1], 16H0623-02[TRC-SB-2], 16H0623-03[TRC-SB-3], B156106-BLK1, B156106-BS1, B156106-BSD1

Carbon Disulfide
16H0623-01[TRC-SB-1], 16H0623-02[TRC-SB-2], 16H0623-03[TRC-SB-3], B156106-BLK1, B156106-BS1, B156106-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 1
16H0623-01[TRC-SB-1], 16H0623-02[TRC-SB-2], 16H0623-03[TRC-SB-3], B156106-BLK1, B156106-BS1, B156106-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Acetone
B156106-BS1, B156106-BSD1

Bromochloromethane
B156106-BS1, B156106-BSD1

SW-846 8270D

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine
16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

4-Chloroaniline
16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

V-04

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

Benzidine
16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzidine
16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

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V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Nitroaniline

16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

4-Nitrophenol

16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

Benzaldehyde

16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

N-Nitrosodimethylamine

16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

N-Nitrosodi-n-propylamine

16H0623-04[TRC-SB-Comp], B156013-BLK1, B156013-BS1, B156013-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8015C

Gasoline Range Organics (2-Methylpentane through 1,2,4-Trimethylbenzene) is quantitated against a calibration made with an unleaded gasoline composite standard.

Diesel Range Organics (C10-C28) is quantitated against a calibration made with a #2 fuel oil standard.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington

Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-1 Sampled: 8/12/2016 09:30

Sample ID: 16H0623-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Acrylonitrile	ND	0.0070	0.0029	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Benzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	R-05	SW-846 8260C	8/15/16	8/15/16 10:21	MFF
2-Butanone (MEK)	ND	0.047	0.021	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.025	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
n-Butylbenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
tert-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Carbon Disulfide	ND	0.0070	0.0041	mg/Kg dry	1	R-05	SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Carbon Tetrachloride	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Chlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Chlorodibromomethane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Chloroethane	ND	0.023	0.0018	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Chloroform	ND	0.0047	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Cyclohexane	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,1-Dichloroethane	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,3-Dichloropropane	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
cis-1,3-Dichloropropene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,4-Dioxane	ND	0.12	0.068	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Ethyl Acetate	ND	0.0023	0.00059	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Ethylbenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-1 Sampled: 8/12/2016 09:30

Sample ID: 16H0623-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0089	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
n-Propylbenzene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Toluene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Trichloroethylene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
o-Xylene	ND	0.0023	0.00082	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Xylenes (total)	ND	0.0070		mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		8/15/16 10:21
Toluene-d8	101	70-130		8/15/16 10:21
4-Bromofluorobenzene	99.3	70-130		8/15/16 10:21

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-1 Sampled: 8/12/2016 09:30

Sample ID: 16H0623-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3,4-Tetrachlorobenzene	0.0	mg/Kg dry			1	NA		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
2,4-Dichloroaniline	0.0	mg/Kg dry			1	554-00-7		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
2,6-Dinitrotoluene	0.0	mg/Kg dry			1	606-20-2		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
3,4-Dichloroaniline	0.0	mg/Kg dry			1	95-76-1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Chloroacetamide	0.0	mg/Kg dry			1	79-07-2		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Methanol	0.0	mg/Kg dry			1	67-56-1		SW-846 8260C	8/15/16	8/15/16 10:21	MFF
Pentachlorobenzene	0.0	mg/Kg dry			1	608-93-5		SW-846 8260C	8/15/16	8/15/16 10:21	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-1
Sampled: 8/12/2016 09:30

Sample ID: 16H0623-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.3	1.3	mg/Kg dry	1		SW-846 8015C	8/15/16	8/15/16 14:22	EEH
Diesel Range Organics	160	48	11	mg/Kg dry	5		SW-846 8015C	8/12/16	8/15/16 20:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	89.9	70-130		8/15/16 14:22
o-Terphenyl	88.1	40-140		8/15/16 20:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-1 Sampled: 8/12/2016 09:30

Sample ID: 16H0623-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0			% Wt	1		SM 2540G	8/13/16	8/13/16 16:04	JW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-2 Sampled: 8/12/2016 09:50

Sample ID: 16H0623-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Acrylonitrile	ND	0.0073	0.0030	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Benzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Bromodichloromethane	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Bromomethane	ND	0.012	0.0021	mg/Kg dry	1	R-05	SW-846 8260C	8/15/16	8/15/16 10:49	MFF
2-Butanone (MEK)	ND	0.049	0.021	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
tert-Butyl Alcohol (TBA)	ND	0.049	0.025	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
n-Butylbenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Carbon Disulfide	ND	0.0073	0.0042	mg/Kg dry	1	R-05	SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Carbon Tetrachloride	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Chlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Chlorodibromomethane	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Chloroform	ND	0.0049	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Cyclohexane	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1	V-05	SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,1-Dichloroethane	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,1-Dichloroethylene	ND	0.0049	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,3-Dichloropropane	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
cis-1,3-Dichloropropene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,4-Dioxane	ND	0.12	0.070	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Ethyl Acetate	ND	0.0024	0.00061	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Ethylbenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-2 Sampled: 8/12/2016 09:50

Sample ID: 16H0623-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0086	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0092	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
n-Propylbenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Styrene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,1,2,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Toluene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Trichloroethylene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
m+p Xylene	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
o-Xylene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Xylenes (total)	ND	0.0073		mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	99.6	70-130		8/15/16 10:49
Toluene-d8	98.6	70-130		8/15/16 10:49
4-Bromofluorobenzene	98.3	70-130		8/15/16 10:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-2 Sampled: 8/12/2016 09:50

Sample ID: 16H0623-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3,4-Tetrachlorobenzene	0.0	mg/Kg dry			1	NA		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
2,4-Dichloroaniline	0.0	mg/Kg dry			1	554-00-7		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
2,6-Dinitrotoluene	0.0	mg/Kg dry			1	606-20-2		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
3,4-Dichloroaniline	0.0	mg/Kg dry			1	95-76-1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Chloroacetamide	0.0	mg/Kg dry			1	79-07-2		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Methanol	0.0	mg/Kg dry			1	67-56-1		SW-846 8260C	8/15/16	8/15/16 10:49	MFF
Pentachlorobenzene	0.0	mg/Kg dry			1	608-93-5		SW-846 8260C	8/15/16	8/15/16 10:49	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-2 Sampled: 8/12/2016 09:50

Sample ID: 16H0623-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.6	1.5	mg/Kg dry	1		SW-846 8015C	8/15/16	8/15/16 14:58	EEH
Diesel Range Organics	230	54	12	mg/Kg dry	5		SW-846 8015C	8/12/16	8/15/16 20:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	89.1	70-130		8/15/16 14:58
o-Terphenyl	78.6	40-140		8/15/16 20:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-2
Sampled: 8/12/2016 09:50

Sample ID: 16H0623-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8			% Wt	1		SM 2540G	8/13/16	8/13/16 16:04	JW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-3 Sampled: 8/12/2016 10:40

Sample ID: 16H0623-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Acrylonitrile	ND	0.0071	0.0030	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Bromodichloromethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	R-05	SW-846 8260C	8/15/16	8/15/16 11:17	MFF
2-Butanone (MEK)	ND	0.047	0.021	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.025	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
n-Butylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Carbon Disulfide	ND	0.0071	0.0041	mg/Kg dry	1	R-05	SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Carbon Tetrachloride	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Chlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Chlorodibromomethane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Chloroform	ND	0.0047	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Cyclohexane	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0015	mg/Kg dry	1	V-05	SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,1-Dichloroethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2-Dichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2-Dichloropropane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,3-Dichloropropane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
cis-1,3-Dichloropropene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,4-Dioxane	ND	0.12	0.068	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Ethyl Acetate	ND	0.0024	0.00059	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Ethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-3 Sampled: 8/12/2016 10:40

Sample ID: 16H0623-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0084	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0090	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
n-Propylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Styrene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,1,2,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Tetrachloroethylene	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Toluene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Trichloroethylene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Xylenes (total)	ND	0.0071		mg/Kg dry	1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		8/15/16 11:17
Toluene-d8	99.6	70-130		8/15/16 11:17
4-Bromofluorobenzene	101	70-130		8/15/16 11:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-3 Sampled: 8/12/2016 10:40

Sample ID: 16H0623-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3,4-Tetrachlorobenzene	0.0	mg/Kg dry			1	NA		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
2,4-Dichloroaniline	0.0	mg/Kg dry			1	554-00-7		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
2,6-Dinitrotoluene	0.0	mg/Kg dry			1	606-20-2		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
3,4-Dichloroaniline	0.0	mg/Kg dry			1	95-76-1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Chloroacetamide	0.0	mg/Kg dry			1	79-07-2		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Methanol	0.0	mg/Kg dry			1	67-56-1		SW-846 8260C	8/15/16	8/15/16 11:17	MFF
Pentachlorobenzene	0.0	mg/Kg dry			1	608-93-5		SW-846 8260C	8/15/16	8/15/16 11:17	MFF

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Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-3
Sampled: 8/12/2016 10:40

Sample ID: 16H0623-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.2	1.1	mg/Kg dry	1		SW-846 8015C	8/15/16	8/15/16 15:34	EEH
Diesel Range Organics	90	46	10	mg/Kg dry	5		SW-846 8015C	8/12/16	8/15/16 21:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	92.9	70-130		8/15/16 15:34
o-Terphenyl	84.1	40-140		8/15/16 21:14

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Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-3 Sampled: 8/12/2016 10:40

Sample ID: 16H0623-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1			% Wt	1		SM 2540G	8/13/16	8/13/16 16:04	JW

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Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04 Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil Stop Date/Time: 8/12/2016 10:40:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.39	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Atrazine	ND	0.76	0.64	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzaldehyde	ND	0.39	0.37	mg/Kg dry	1	V-20	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Biphenyl	ND	0.76	0.48	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Caprolactam	ND	0.39	0.29	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Acenaphthene	0.21	0.19	0.058	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Acenaphthylene	0.086	0.19	0.065	mg/Kg dry	1	J	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Acetophenone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Aniline	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Anthracene	0.53	0.19	0.056	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzidine	ND	0.75	0.48	mg/Kg dry	1	V-04, V-05	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzo(a)anthracene	1.8	0.19	0.051	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzo(a)pyrene	2.0	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzo(b)fluoranthene	2.5	0.19	0.055	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzo(g,h,i)perylene	1.1	0.19	0.085	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzo(k)fluoranthene	0.89	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzoic Acid	ND	1.1	0.21	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Bis(2-Ethylhexyl)phthalate	0.43	0.39	0.15	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4-Bromophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Butylbenzylphthalate	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Carbazole	0.21	0.19	0.050	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4-Chloroaniline	ND	0.75	0.089	mg/Kg dry	1	R-05	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4-Chloro-3-methylphenol	ND	0.75	0.083	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2-Chloronaphthalene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2-Chlorophenol	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4-Chlorophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Chrysene	1.8	0.19	0.060	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Dibenz(a,h)anthracene	0.28	0.19	0.12	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Dibenzofuran	0.21	0.39	0.067	mg/Kg dry	1	J	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Di-n-butylphthalate	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1	R-05	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,4-Dichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Diethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,4-Dimethylphenol	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Dimethylphthalate	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,4-Dinitrophenol	ND	0.75	0.22	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,4-Dinitrotoluene	ND	0.39	0.062	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,6-Dinitrotoluene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Di-n-octylphthalate	ND	0.39	0.20	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.062	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Fluoranthene	4.2	0.39	0.13	mg/Kg dry	2		SW-846 8270D	8/12/16	8/15/16 14:05	BGL

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Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04 Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil Stop Date/Time: 8/12/2016 10:40:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	0.28	0.19	0.062	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Hexachlorobenzene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Hexachlorobutadiene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Hexachlorocyclopentadiene	ND	0.39	0.082	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Hexachloroethane	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Indeno(1,2,3-cd)pyrene	1.1	0.19	0.14	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Isophorone	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2-Methylnaphthalene	0.11	0.19	0.067	mg/Kg dry	1	J	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2-Methylphenol	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Naphthalene	0.20	0.19	0.099	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1	V-20	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
3-Nitroaniline	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Nitrobenzene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
4-Nitrophenol	ND	0.75	0.084	mg/Kg dry	1	V-20	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
N-Nitrosodimethylamine	ND	0.39	0.24	mg/Kg dry	1	V-20	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
N-Nitrosodiphenylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.080	mg/Kg dry	1	V-20	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Pentachloronitrobenzene	ND	0.39	0.092	mg/Kg dry	1	V-16	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Pentachlorophenol	ND	0.39	0.093	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Phenanthrene	3.6	0.19	0.10	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Phenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Pyrene	3.3	0.19	0.064	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,4,5-Trichlorophenol	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL
2,4,6-Trichlorophenol	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	8/12/16	8/13/16 14:58	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	85.2	30-130		8/13/16 14:58
Phenol-d6	99.9	30-130		8/13/16 14:58
Nitrobenzene-d5	99.3	30-130		8/13/16 14:58
2-Fluorobiphenyl	91.5	30-130		8/13/16 14:58
2,4,6-Tribromophenol	74.8	30-130		8/13/16 14:58
p-Terphenyl-d14	90.7	30-130		8/13/16 14:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04 Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil Stop Date/Time: 8/12/2016 10:40:00AM

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Phenylnaphthalene	0.30	mg/Kg dry	102984	6.646	1	035465-71-5	96	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
9,10-Anthracenedione	0.37	mg/Kg dry	126520	6.671	1	000084-65-1	99	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
9H-Fluoren-9-one	0.24	mg/Kg dry	83319	5.976	1	000486-25-9	96	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Benzo[e]pyrene	1.9	mg/Kg dry	479381	11.077	1	000192-97-2	97	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Dibenzothiophene	0.20	mg/Kg dry	67763	6.032	1	000132-65-0	96	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Phenanthrene, 1-methyl-	0.48	mg/Kg dry	164838	6.454	1	000832-69-9	96	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Phenanthrene, 2-methyl-	0.38	mg/Kg dry	129408	6.432	1	002531-84-2	97	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Phenanthrene, 3,6-dimethyl-	0.52	mg/Kg dry	179174	6.848	1	001576-67-6	97	SW-846 8270D	8/12/16	8/13/16 14:58	BGL
Sulfur	0.23	mg/Kg dry	72877	5.37	1	013798-23-7	91	SW-846 8270D	8/12/16	8/13/16 14:58	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623
Date Received: 8/12/2016
Field Sample #: TRC-SB-Comp
Sample ID: 16H0623-04
Start Date/Time: 8/12/2016 9:30:00AM
Sample Matrix: Soil
Stop Date/Time: 8/12/2016 10:40:00AM

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	0.010	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
gamma-Chlordane [1]	0.0094	0.0057	0.00032	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Alachlor [1]	ND	0.023	0.0012	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Aldrin [1]	0.00054	0.0057	0.00034	mg/Kg dry	1	P-02, J	SW-846 8081B	8/12/16	8/15/16 18:39	PJG
alpha-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
beta-BHC [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
delta-BHC [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	0.00057	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Chlordane [1]	0.065	0.023	0.0066	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
4,4'-DDD [2]	0.0012	0.0045	0.00045	mg/Kg dry	1	J	SW-846 8081B	8/12/16	8/15/16 18:39	PJG
4,4'-DDE [1]	0.0036	0.0045	0.00034	mg/Kg dry	1	P-02, J	SW-846 8081B	8/12/16	8/15/16 18:39	PJG
4,4'-DDT [2]	0.0047	0.0045	0.00045	mg/Kg dry	1	P-01	SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Dieldrin [2]	0.0032	0.0045	0.00034	mg/Kg dry	1	J	SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Endosulfan I [1]	ND	0.0057	0.00045	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Endosulfan II [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Endosulfan sulfate [1]	ND	0.0091	0.0015	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Endrin [1]	ND	0.0091	0.00034	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Endrin aldehyde [1]	ND	0.045	0.0068	mg/Kg dry	5	DL-03	SW-846 8081B	8/12/16	8/13/16 17:03	PJG
Endrin ketone [1]	ND	0.0091	0.00045	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Heptachlor [1]	ND	0.0057	0.00057	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Heptachlor epoxide [1]	0.00096	0.0057	0.00045	mg/Kg dry	1	J	SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Hexachlorobenzene [1]	ND	0.0068	0.00080	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Methoxychlor [1]	ND	0.057	0.00068	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG
Toxaphene [1]	ND	0.11	0.049	mg/Kg dry	1		SW-846 8081B	8/12/16	8/15/16 18:39	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.4	30-150		8/15/16 18:39
Decachlorobiphenyl [2]	61.1	30-150		8/15/16 18:39
Tetrachloro-m-xylene [1]	63.0	30-150		8/15/16 18:39
Tetrachloro-m-xylene [2]	63.2	30-150		8/15/16 18:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04
Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil
Stop Date/Time: 8/12/2016 10:40:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	0.068	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1221 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1232 [1]	ND	0.11	0.051	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1242 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1248 [1]	ND	0.11	0.068	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1254 [1]	ND	0.11	0.074	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1260 [1]	ND	0.11	0.080	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1262 [1]	ND	0.11	0.057	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL
Aroclor-1268 [1]	ND	0.11	0.045	mg/Kg dry	5		SW-846 8082A	8/12/16	8/14/16 18:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.4	30-150		8/14/16 18:18
Decachlorobiphenyl [2]	104	30-150		8/14/16 18:18
Tetrachloro-m-xylene [1]	91.2	30-150		8/14/16 18:18
Tetrachloro-m-xylene [2]	96.2	30-150		8/14/16 18:18

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Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04
Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil
Stop Date/Time: 8/12/2016 10:40:00AM

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	28	2.5	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
2,4-DB [1]	ND	28	5.7	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
2,4,5-TP (Silvex) [1]	ND	2.8	0.31	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
2,4,5-T [1]	ND	2.8	0.38	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
Dalalpon [1]	ND	71	4.3	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
Dicamba [1]	ND	2.8	0.40	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
Dichloroprop [1]	ND	28	5.4	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
Dinoseb [1]	ND	14	0.59	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
MCPA [1]	ND	2800	430	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL
MCPP [1]	ND	2800	380	µg/kg dry	1		SW-846 8151A	8/15/16	8/17/16 11:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	73.1	30-150		8/17/16 11:10
2,4-Dichlorophenylacetic acid [2]	93.0	30-150		8/17/16 11:10

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Project Location: 109-10 47th Ave, Corona, Queens Sample Description: Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04 Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil Stop Date/Time: 8/12/2016 10:40:00AM

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	7500	2.7	2.3	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Antimony	ND	2.7	1.7	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Arsenic	8.7	2.7	0.50	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Barium	710	2.7	0.85	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Beryllium	ND	0.27	0.22	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Cadmium	1.6	0.27	0.15	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Calcium	25000	8.2	4.9	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Chromium	26	0.55	0.35	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Cobalt	7.3	2.7	0.84	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Copper	350	0.55	0.20	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Iron	24000	2.7	1.5	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Lead	700	0.82	0.23	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Magnesium	3100	8.2	4.1	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Manganese	320	0.55	0.39	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Mercury	0.57	0.057	0.016	mg/Kg dry	2		SW-846 7471B	8/15/16	8/16/16 9:55	SHN
Nickel	21	0.55	0.16	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Potassium	1400	110	67	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Selenium	ND	5.5	1.2	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Silver	ND	0.55	0.44	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Sodium	560	110	62	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Thallium	ND	2.7	1.8	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Vanadium	30	1.1	0.32	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME
Zinc	680	1.1	0.90	mg/Kg dry	1		SW-846 6010C-D	8/15/16	8/16/16 10:07	AME

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Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04
Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil
Stop Date/Time: 8/12/2016 10:40:00AM

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyanide	0.56	0.53	0.25	mg/Kg dry	1		SW-846 9014	8/15/16	8/16/16 12:50	VAK
Hexavalent Chromium	ND	1.8	1.3	mg/Kg dry	10	DL-03	SW-846 7196A	8/12/16	8/12/16 21:50	MMH
Ignitability	Absent			present/absent	1		SW-846 1030	8/15/16	8/15/16 11:15	AG
pH @21.6°C	9.0			pH Units	1		SW-846 9045C	8/12/16	8/12/16 19:35	AMM
Reactive Cyanide	ND	3.9	3.9	mg/Kg	1		SW-846 9014	8/15/16	8/16/16 14:10	AG
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	8/15/16	8/16/16 12:50	AG
% Solids	88.0			% Wt	1		SM 2540G	8/13/16	8/13/16 16:04	JW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 109-10 47th Ave, Corona, Queens
Sample Description:
Work Order: 16H0623

Date Received: 8/12/2016

Field Sample #: TRC-SB-Comp

Sample ID: 16H0623-04
Start Date/Time: 8/12/2016 9:30:00AM

Sample Matrix: Soil
Stop Date/Time: 8/12/2016 10:40:00AM

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	0.010	mg/L	1		SW-846 6010C-D	8/15/16	8/15/16 13:31	AME
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	8/15/16	8/15/16 14:27	SHN
Barium	0.60	0.050	mg/L	1		SW-846 6010C-D	8/15/16	8/15/16 13:31	AME
Cadmium	0.0088	0.0040	mg/L	1		SW-846 6010C-D	8/15/16	8/15/16 13:31	AME
Chromium	ND	0.010	mg/L	1		SW-846 6010C-D	8/15/16	8/15/16 13:31	AME
Lead	0.18	0.010	mg/L	1		SW-846 6010C-D	8/15/16	8/15/16 13:31	AME
Selenium	ND	0.050	mg/L	1	MS-14	SW-846 6010C-D	8/15/16	8/15/16 13:31	AME
Silver	ND	0.0050	mg/L	1		SW-846 6010C-D	8/15/16	8/15/16 13:31	AME

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16H0623-01 [TRC-SB-1]	B156024	08/13/16
16H0623-02 [TRC-SB-2]	B156024	08/13/16
16H0623-03 [TRC-SB-3]	B156024	08/13/16
16H0623-04 [TRC-SB-Comp]	B156024	08/13/16

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
16H0623-04 [TRC-SB-Comp]	B156076	50.0	08/15/16

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156053	1.04	50.0	08/15/16

Prep Method: SW-846 3010A-SW-846 6010C-D **Leachates were extracted on 8/13/2016 per SW-846 1311 in Batch B156030**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156036	50.0	50.0	08/15/16

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B155997	2.57	100	08/12/16

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 8/13/2016 per SW-846 1311 in Batch B156030**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156050	6.00	6.00	08/15/16

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156083	0.602	50.0	08/15/16

Prep Method: SW-846 3546-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-01 [TRC-SB-1]	B156003	30.0	1.00	08/12/16
16H0623-02 [TRC-SB-2]	B156003	30.0	1.00	08/12/16
16H0623-03 [TRC-SB-3]	B156003	30.0	1.00	08/12/16

Prep Method: SW-846 5035/5030B-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date

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Sample Extraction Data

Prep Method: SW-846 5035/5030B-SW-846 8015C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-01 [TRC-SB-1]	B156079	5.10	5.80	08/15/16
16H0623-02 [TRC-SB-2]	B156079	5.20	6.30	08/15/16
16H0623-03 [TRC-SB-3]	B156079	5.30	5.60	08/15/16

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156014	10.0	10.0	08/12/16
16H0623-04RE1 [TRC-SB-Comp]	B156014	10.0	10.0	08/12/16

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156015	10.0	10.0	08/12/16

Prep Method: SW-846 8151-SW-846 8151A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156058	20.0	5.00	08/15/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-01 [TRC-SB-1]	B156106	4.90	10.0	08/15/16
16H0623-02 [TRC-SB-2]	B156106	5.30	10.0	08/15/16
16H0623-03 [TRC-SB-3]	B156106	4.70	10.0	08/15/16

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156013	30.0	1.00	08/12/16
16H0623-04RE1 [TRC-SB-Comp]	B156013	30.0	1.00	08/12/16

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156078	1.06	50.0	08/15/16

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156092	25.6	250	08/15/16

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Sample Extraction Data

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16H0623-04 [TRC-SB-Comp]	B156093	25.6	250	08/15/16

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
16H0623-04 [TRC-SB-Comp]	B156028	20.0	08/12/16

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156106 - SW-846 5035										
Blank (B156106-BLK1)				Prepared & Analyzed: 08/15/16						
Acetone	ND	0.10	mg/Kg wet							
Acrolein	0.0		mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							R-05
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							V-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethyl Acetate	ND	0.0020	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156106 - SW-846 5035												
Blank (B156106-BLK1)				Prepared & Analyzed: 08/15/16								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Xylenes (total)	ND	0.0060	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0517*		mg/Kg wet	0.0500		103		70-130				
Surrogate: Toluene-d8	*0.0505*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0499*		mg/Kg wet	0.0500		99.9		70-130				
LCS (B156106-BS1)				Prepared & Analyzed: 08/15/16								
Acetone	0.288	0.10	mg/Kg wet	0.200		144		70-160			V-20	†
Acrylonitrile	0.0245	0.0060	mg/Kg wet	0.0200		123		70-130				
Benzene	0.0223	0.0020	mg/Kg wet	0.0200		111		70-130				
Bromochloromethane	0.0255	0.0020	mg/Kg wet	0.0200		128		70-130			V-20	
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130				
Bromoform	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130				
Bromomethane	0.0120	0.010	mg/Kg wet	0.0200		59.9		40-130			R-05	†
2-Butanone (MEK)	0.248	0.040	mg/Kg wet	0.200		124		70-160				†
tert-Butyl Alcohol (TBA)	0.248	0.040	mg/Kg wet	0.200		124		40-130				†
n-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
sec-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130				
tert-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-160				†
Carbon Disulfide	0.0273	0.0060	mg/Kg wet	0.0200		**137**	*	70-130			L-02, R-05	
Carbon Tetrachloride	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130				
Chloroethane	0.0205	0.020	mg/Kg wet	0.0200		102		70-130				
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110		70-130				
Chloromethane	0.0165	0.010	mg/Kg wet	0.0200		82.7		70-130				
Cyclohexane	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130				
1,2-Dibromoethane (EDB)	0.0194	0.0010	mg/Kg wet	0.0200		97.0		70-130				
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130				
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Dichlorodifluoromethane (Freon 12)	0.0122	0.020	mg/Kg wet	0.0200		61.0		40-160			V-05, J	†
1,1-Dichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130				
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
1,1-Dichloroethylene	0.0222	0.0040	mg/Kg wet	0.0200		111		70-130				
cis-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130				
trans-1,2-Dichloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130				
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,3-Dichloropropane	0.0198	0.0010	mg/Kg wet	0.0200		99.1		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B156106 - SW-846 5035													
LCS (B156106-BS1)				Prepared & Analyzed: 08/15/16									
cis-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.6		70-130					
trans-1,3-Dichloropropene	0.0202	0.0010	mg/Kg wet	0.0200		101		70-130					
1,4-Dioxane	0.202	0.10	mg/Kg wet	0.200		101		40-160					†
Ethyl Acetate	ND	0.0020	mg/Kg wet	0.0200			*	70-130					
Ethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130					
2-Hexanone (MBK)	0.213	0.020	mg/Kg wet	0.200		106		70-160					†
Isopropylbenzene (Cumene)	0.0243	0.0020	mg/Kg wet	0.0200		121		70-130					
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130					
Methyl Acetate	0.0419	0.0020	mg/Kg wet	0.0200		**210**	*	70-130				L-02	
Methyl tert-Butyl Ether (MTBE)	0.0210	0.0040	mg/Kg wet	0.0200		105		70-130					
Methyl Cyclohexane	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130					
Methylene Chloride	0.0232	0.020	mg/Kg wet	0.0200		116		40-160					†
4-Methyl-2-pentanone (MIBK)	0.211	0.020	mg/Kg wet	0.200		106		70-160					†
n-Propylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130					
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130					
1,1,2,2-Tetrachloroethane	0.0211	0.0010	mg/Kg wet	0.0200		106		70-130					
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130					
Toluene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130					
1,2,3-Trichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130					
1,2,4-Trichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130					
1,1,1-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130					
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130					
Trichloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130					
Trichlorofluoromethane (Freon 11)	0.0209	0.010	mg/Kg wet	0.0200		105		70-130					
1,2,3-Trichloropropane	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0227	0.010	mg/Kg wet	0.0200		113		70-130					
1,2,4-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130					
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130					
Vinyl Chloride	0.0187	0.010	mg/Kg wet	0.0200		93.4		40-130					†
m+p Xylene	0.0401	0.0040	mg/Kg wet	0.0400		100		70-130					
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130					
Surrogate: 1,2-Dichloroethane-d4	*0.0513*		mg/Kg wet	0.0500		103		70-130					
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.9		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0501*		mg/Kg wet	0.0500		100		70-130					
LCS Dup (B156106-BSD1)				Prepared & Analyzed: 08/15/16									
Acetone	0.276	0.10	mg/Kg wet	0.200		138		70-160	4.20		25	V-20	†
Acrylonitrile	0.0223	0.0060	mg/Kg wet	0.0200		111		70-130	9.74		25		
Benzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	2.27		25		
Bromochloromethane	0.0259	0.0020	mg/Kg wet	0.0200		130		70-130	1.56		25	V-20	
Bromodichloromethane	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130	3.30		25		
Bromoform	0.0196	0.0020	mg/Kg wet	0.0200		98.0		70-130	8.50		25		
Bromomethane	0.00896	0.010	mg/Kg wet	0.0200		44.8		40-130	**28.8**	*	25	J, R-05	†
2-Butanone (MEK)	0.232	0.040	mg/Kg wet	0.200		116		70-160	6.65		25		†
tert-Butyl Alcohol (TBA)	0.204	0.040	mg/Kg wet	0.200		102		40-130	19.4		25		†
n-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	4.23		25		
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	0.943		25		
tert-Butylbenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-160	4.40		25		†
Carbon Disulfide	0.0440	0.0060	mg/Kg wet	0.0200		**220**	*	70-130	**46.9**	*	25	L-02, R-05	
Carbon Tetrachloride	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	0.929		25		
Chlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	1.94		25		
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100		70-130	1.97		25		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B156106 - SW-846 5035												
LCS Dup (B156106-BSD1)				Prepared & Analyzed: 08/15/16								
Chloroethane	0.0160	0.020	mg/Kg wet	0.0200		80.2		70-130	24.4	25	J	
Chloroform	0.0223	0.0040	mg/Kg wet	0.0200		112		70-130	1.62	25		
Chloromethane	0.0159	0.010	mg/Kg wet	0.0200		79.4		70-130	4.07	25		
Cyclohexane	0.0225	0.0020	mg/Kg wet	0.0200		112		70-130	1.71	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	7.07	25		
1,2-Dibromoethane (EDB)	0.0186	0.0010	mg/Kg wet	0.0200		92.8		70-130	4.43	25		
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9		70-130	3.51	25		
1,3-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	2.84	25		
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130	6.11	25		
Dichlorodifluoromethane (Freon 12)	0.0138	0.020	mg/Kg wet	0.0200		69.2		40-160	12.6	25	J, V-05	†
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	0.737	25		
1,2-Dichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	2.64	25		
1,1-Dichloroethylene	0.0211	0.0040	mg/Kg wet	0.0200		106		70-130	4.99	25		
cis-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	0.376	25		
trans-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	0.376	25		
1,2-Dichloropropane	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130	1.29	25		
1,3-Dichloropropane	0.0192	0.0010	mg/Kg wet	0.0200		96.2		70-130	2.97	25		
cis-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.5		70-130	0.100	25		
trans-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		98.2		70-130	2.71	25		
1,4-Dioxane	0.206	0.10	mg/Kg wet	0.200		103		40-160	1.86	50		† ‡
Ethyl Acetate	ND	0.0020	mg/Kg wet	0.0200			*	70-130	NC	25		
Ethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130	1.04	25		
2-Hexanone (MBK)	0.206	0.020	mg/Kg wet	0.200		103		70-160	3.39	25		†
Isopropylbenzene (Cumene)	0.0243	0.0020	mg/Kg wet	0.0200		122		70-130	0.165	25		
p-Isopropyltoluene (p-Cymene)	0.0196	0.0020	mg/Kg wet	0.0200		97.9		70-130	4.69	25		
Methyl Acetate	0.0444	0.0020	mg/Kg wet	0.0200		**222**	*	70-130	5.84	25	L-02	
Methyl tert-Butyl Ether (MTBE)	0.0198	0.0040	mg/Kg wet	0.0200		99.0		70-130	5.88	25		
Methyl Cyclohexane	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	2.45	25		
Methylene Chloride	0.0234	0.020	mg/Kg wet	0.0200		117		40-160	0.687	25		†
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.200		100		70-160	5.24	25		†
n-Propylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8		70-130	2.32	25		
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.4		70-130	0.826	25		
1,1,2,2-Tetrachloroethane	0.0211	0.0010	mg/Kg wet	0.0200		106		70-130	0.00	25		
Tetrachloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	1.02	25		
Toluene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	1.09	25		
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130	12.0	25		
1,2,4-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130	5.62	25		
1,1,1-Trichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	0.922	25		
1,1,2-Trichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	11.3	25		
Trichloroethylene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	1.46	25		
Trichlorofluoromethane (Freon 11)	0.0195	0.010	mg/Kg wet	0.0200		97.7		70-130	6.92	25		
1,2,3-Trichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.3		70-130	12.4	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0214	0.010	mg/Kg wet	0.0200		107		70-130	5.81	25		
1,2,4-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130	4.84	25		
1,3,5-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130	3.23	25		
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.1		40-130	9.30	25		†
m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.3		70-130	0.952	25		
o-Xylene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130	0.00	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0513*		mg/Kg wet	0.0500		103		70-130				
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0506*		mg/Kg wet	0.0500		101		70-130				

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156106 - SW-846 5035										
Blank (B156106-BLK1)				Prepared & Analyzed: 08/15/16						
No TICs Found	0.0		mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156013 - SW-846 3546										
Blank (B156013-BLK1)				Prepared: 08/12/16 Analyzed: 08/13/16						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							V-20
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
N-Nitrosodiethylamine	ND	0.33	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzidine	ND	0.66	mg/Kg wet							V-04, V-05
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							R-05
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							R-05
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156013 - SW-846 3546										
Blank (B156013-BLK1)				Prepared: 08/12/16 Analyzed: 08/13/16						
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							V-20
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
N-Nitrosodimethylamine	ND	0.34	mg/Kg wet							V-20
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							V-20
Pentachloronitrobenzene	ND	0.34	mg/Kg wet							V-16
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Surrogate: 2-Fluorophenol	*6.65*		mg/Kg wet	6.67		99.7	30-130			
Surrogate: Phenol-d6	*7.22*		mg/Kg wet	6.67		108	30-130			
Surrogate: Nitrobenzene-d5	*3.48*		mg/Kg wet	3.33		104	30-130			
Surrogate: 2-Fluorobiphenyl	*3.01*		mg/Kg wet	3.33		90.3	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.47*		mg/Kg wet	6.67		97.1	30-130			
Surrogate: p-Terphenyl-d14	*3.78*		mg/Kg wet	3.33		113	30-130			
LCS (B156013-BS1)				Prepared: 08/12/16 Analyzed: 08/13/16						
2,3,4,6-Tetrachlorophenol	1.24	0.67	mg/Kg wet	1.67		74.6	40-140			
Atrazine	1.22	0.67	mg/Kg wet	1.67		73.0	40-140			
Benzaldehyde	0.985	0.34	mg/Kg wet	1.67		59.1	40-140			V-20
Biphenyl	1.22	0.67	mg/Kg wet	1.67		73.5	40-140			
Caprolactam	1.38	0.34	mg/Kg wet	1.67		83.0	40-140			
N-Nitrosodiethylamine	ND	0.33	mg/Kg wet				40-140			
Acenaphthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140			
Acenaphthylene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Acetophenone	1.29	0.34	mg/Kg wet	1.67		77.6	40-140			
Aniline	0.853	0.34	mg/Kg wet	1.67		51.2	40-140			
Anthracene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzidine	0.904	0.66	mg/Kg wet	1.67		54.3	40-140			V-04, V-05
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.3	40-140			
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140			
Benzo(b)fluoranthene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140			
Benzo(k)fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140			
Benzoic Acid	0.825	1.0	mg/Kg wet	1.67		49.5	10-130			J †
Bis(2-chloroethoxy)methane	1.43	0.34	mg/Kg wet	1.67		85.5	40-140			
Bis(2-chloroethyl)ether	1.22	0.34	mg/Kg wet	1.67		73.3	40-140			
Bis(2-Ethylhexyl)phthalate	1.60	0.34	mg/Kg wet	1.67		95.9	40-140			
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		78.1	40-140			
Butylbenzylphthalate	1.54	0.34	mg/Kg wet	1.67		92.2	40-140			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B156013 - SW-846 3546											
LCS (B156013-BS1)				Prepared: 08/12/16 Analyzed: 08/13/16							
Carbazole	1.29	0.17	mg/Kg wet	1.67		77.4	40-140				
4-Chloroaniline	0.923	0.66	mg/Kg wet	1.67		55.4	40-140			R-05	
4-Chloro-3-methylphenol	1.37	0.66	mg/Kg wet	1.67		82.3	30-130				
2-Chloronaphthalene	1.13	0.34	mg/Kg wet	1.67		68.1	40-140				
2-Chlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130				
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.2	40-140				
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140				
Dibenz(a,h)anthracene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140				
Dibenzofuran	1.29	0.34	mg/Kg wet	1.67		77.5	40-140				
Di-n-butylphthalate	1.46	0.34	mg/Kg wet	1.67		87.9	40-140				
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			R-05	
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130				
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		84.1	40-140				
2,4-Dimethylphenol	1.25	0.34	mg/Kg wet	1.67		75.1	30-130				
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
4,6-Dinitro-2-methylphenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130				
2,4-Dinitrophenol	0.684	0.66	mg/Kg wet	1.67		41.0	30-130				
2,4-Dinitrotoluene	1.43	0.34	mg/Kg wet	1.67		85.6	40-140				
2,6-Dinitrotoluene	1.41	0.34	mg/Kg wet	1.67		84.6	40-140				
Di-n-octylphthalate	1.45	0.34	mg/Kg wet	1.67		86.7	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	1.71	0.34	mg/Kg wet	1.67		103	40-140				
Fluoranthene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140				
Fluorene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140				
Hexachlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140				
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140				
Hexachlorocyclopentadiene	0.842	0.34	mg/Kg wet	1.67		50.5	30-140				†
Hexachloroethane	1.07	0.34	mg/Kg wet	1.67		64.3	40-140				
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140				
Isophorone	1.46	0.34	mg/Kg wet	1.67		87.7	40-140				
2-Methylnaphthalene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140				
2-Methylphenol	1.21	0.34	mg/Kg wet	1.67		72.7	30-130				
3/4-Methylphenol	1.44	0.34	mg/Kg wet	1.67		86.5	30-130				
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140				
2-Nitroaniline	1.85	0.34	mg/Kg wet	1.67		111	40-140			V-20	
3-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2	40-140				
4-Nitroaniline	1.43	0.34	mg/Kg wet	1.67		86.0	40-140				
Nitrobenzene	1.40	0.34	mg/Kg wet	1.67		83.9	40-140				
2-Nitrophenol	1.21	0.34	mg/Kg wet	1.67		72.6	30-130				
4-Nitrophenol	1.84	0.66	mg/Kg wet	1.67		111	10-130			V-20	†
N-Nitrosodimethylamine	1.64	0.34	mg/Kg wet	1.67		98.6	40-140			V-20	
N-Nitrosodiphenylamine	1.58	0.34	mg/Kg wet	1.67		95.0	40-140				
N-Nitrosodi-n-propylamine	1.56	0.34	mg/Kg wet	1.67		93.7	40-140			V-20	
Pentachloronitrobenzene	1.35	0.34	mg/Kg wet	1.67		81.2	40-140			V-16	
Pentachlorophenol	0.851	0.34	mg/Kg wet	1.67		51.1	30-130				
Phenanthrene	1.30	0.17	mg/Kg wet	1.67		77.9	40-140				
Phenol	1.39	0.34	mg/Kg wet	1.67		83.2	20-130				†
Pyrene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140				
1,2,4,5-Tetrachlorobenzene	1.08	0.34	mg/Kg wet	1.67		64.7	40-140				
2,4,5-Trichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.0	30-130				
2,4,6-Trichlorophenol	1.21	0.34	mg/Kg wet	1.67		72.5	30-130				
Surrogate: 2-Fluorophenol	*5.43*		mg/Kg wet	6.67		81.5	30-130				
Surrogate: Phenol-d6	*6.24*		mg/Kg wet	6.67		93.6	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B156013 - SW-846 3546											
LCS (B156013-BS1)				Prepared: 08/12/16 Analyzed: 08/13/16							
Surrogate: Nitrobenzene-d5	*3.01*		mg/Kg wet	3.33		90.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.77*		mg/Kg wet	3.33		83.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.83*		mg/Kg wet	6.67		102	30-130				
Surrogate: p-Terphenyl-d14	*3.41*		mg/Kg wet	3.33		102	30-130				
LCS Dup (B156013-BSD1)				Prepared: 08/12/16 Analyzed: 08/13/16							
2,3,4,6-Tetrachlorophenol	1.49	0.67	mg/Kg wet	1.67		89.5	40-140	18.2	20		
Atrazine	1.44	0.67	mg/Kg wet	1.67		86.5	40-140	16.8	20		
Benzaldehyde	1.06	0.34	mg/Kg wet	1.67		63.6	40-140	7.33	20	V-20	
Biphenyl	1.44	0.67	mg/Kg wet	1.67		86.6	40-140	16.3	20		
Caprolactam	1.58	0.34	mg/Kg wet	1.67		94.9	40-140	13.4	20		
N-Nitrosodiethylamine	ND	0.33	mg/Kg wet				40-140	NC	20		
Acenaphthene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140	14.9	20		
Acenaphthylene	1.42	0.17	mg/Kg wet	1.67		85.2	40-140	15.8	20		
Acetophenone	1.41	0.34	mg/Kg wet	1.67		84.8	40-140	8.97	20		
Aniline	1.10	0.34	mg/Kg wet	1.67		65.7	40-140	24.9	50		‡
Anthracene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140	16.4	20		
Benzidine	1.08	0.66	mg/Kg wet	1.67		64.9	40-140	17.8	20	V-04, V-05	
Benzo(a)anthracene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140	14.7	20		
Benzo(a)pyrene	1.53	0.17	mg/Kg wet	1.67		91.9	40-140	15.5	20		
Benzo(b)fluoranthene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140	15.3	20		
Benzo(g,h,i)perylene	1.53	0.17	mg/Kg wet	1.67		91.8	40-140	15.0	20		
Benzo(k)fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140	17.0	20		
Benzoic Acid	0.970	1.0	mg/Kg wet	1.67		58.2	10-130	16.2	50	J	† ‡
Bis(2-chloroethoxy)methane	1.60	0.34	mg/Kg wet	1.67		95.9	40-140	11.5	20		
Bis(2-chloroethyl)ether	1.32	0.34	mg/Kg wet	1.67		78.9	40-140	7.46	20		
Bis(2-Ethylhexyl)phthalate	1.75	0.34	mg/Kg wet	1.67		105	40-140	9.33	20		
4-Bromophenylphenylether	1.52	0.34	mg/Kg wet	1.67		90.9	40-140	15.2	20		
Butylbenzylphthalate	1.72	0.34	mg/Kg wet	1.67		103	40-140	11.4	20		
Carbazole	1.53	0.17	mg/Kg wet	1.67		92.0	40-140	17.2	20		
4-Chloroaniline	1.20	0.66	mg/Kg wet	1.67		71.9	40-140	**26.0** *	20	R-05	
4-Chloro-3-methylphenol	1.58	0.66	mg/Kg wet	1.67		94.9	30-130	14.2	20		
2-Chloronaphthalene	1.17	0.34	mg/Kg wet	1.67		70.5	40-140	3.46	20		
2-Chlorophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130	11.8	20		
4-Chlorophenylphenylether	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	16.5	20		
Chrysene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140	13.1	20		
Dibenz(a,h)anthracene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140	16.7	20		
Dibenzofuran	1.53	0.34	mg/Kg wet	1.67		91.9	40-140	17.0	20		
Di-n-butylphthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140	13.0	20		
3,3-Dichlorobenzidine	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	**25.8** *	20	R-05	
2,4-Dichlorophenol	1.39	0.34	mg/Kg wet	1.67		83.3	30-130	14.8	20		
Diethylphthalate	1.65	0.34	mg/Kg wet	1.67		98.8	40-140	16.1	20		
2,4-Dimethylphenol	1.45	0.34	mg/Kg wet	1.67		86.8	30-130	14.5	20		
Dimethylphthalate	1.59	0.34	mg/Kg wet	1.67		95.5	40-140	16.9	50		‡
4,6-Dinitro-2-methylphenol	1.25	0.34	mg/Kg wet	1.67		74.8	30-130	11.8	50		‡
2,4-Dinitrophenol	0.726	0.66	mg/Kg wet	1.67		43.6	30-130	5.96	50		‡
2,4-Dinitrotoluene	1.65	0.34	mg/Kg wet	1.67		99.2	40-140	14.7	20		
2,6-Dinitrotoluene	1.64	0.34	mg/Kg wet	1.67		98.5	40-140	15.1	20		
Di-n-octylphthalate	1.62	0.34	mg/Kg wet	1.67		97.2	40-140	11.4	20		
1,2-Diphenylhydrazine (as Azobenzene)	2.00	0.34	mg/Kg wet	1.67		120	40-140	15.4	20		
Fluoranthene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140	16.6	20		
Fluorene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140	16.1	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B156013 - SW-846 3546											
LCS Dup (B156013-BSD1)				Prepared: 08/12/16 Analyzed: 08/13/16							
Hexachlorobenzene	1.51	0.34	mg/Kg wet	1.67		90.7	40-140	15.6	20		
Hexachlorobutadiene	1.12	0.34	mg/Kg wet	1.67		67.2	40-140	7.19	20		
Hexachlorocyclopentadiene	0.956	0.34	mg/Kg wet	1.67		57.4	30-140	12.7	50		† ‡
Hexachloroethane	1.14	0.34	mg/Kg wet	1.67		68.5	40-140	6.35	50		‡
Indeno(1,2,3-cd)pyrene	1.56	0.17	mg/Kg wet	1.67		93.7	40-140	16.8	50		‡
Isophorone	1.66	0.34	mg/Kg wet	1.67		99.8	40-140	12.9	20		
2-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.8	40-140	12.7	20		
2-Methylphenol	1.38	0.34	mg/Kg wet	1.67		82.8	30-130	13.0	20		
3/4-Methylphenol	1.67	0.34	mg/Kg wet	1.67		100	30-130	15.0	20		
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	11.5	20		
2-Nitroaniline	2.20	0.34	mg/Kg wet	1.67		132	40-140	17.3	20	V-20	
3-Nitroaniline	1.59	0.34	mg/Kg wet	1.67		95.1	40-140	15.8	20		
4-Nitroaniline	1.72	0.34	mg/Kg wet	1.67		103	40-140	18.2	20		
Nitrobenzene	1.57	0.34	mg/Kg wet	1.67		94.0	40-140	11.4	20		
2-Nitrophenol	1.36	0.34	mg/Kg wet	1.67		81.9	30-130	12.0	20		
4-Nitrophenol	2.13	0.66	mg/Kg wet	1.67		128	10-130	14.6	50	V-20	† ‡
N-Nitrosodimethylamine	1.88	0.34	mg/Kg wet	1.67		113	40-140	13.5	20	V-20	
N-Nitrosodiphenylamine	1.82	0.34	mg/Kg wet	1.67		109	40-140	14.2	20		
N-Nitrosodi-n-propylamine	1.76	0.34	mg/Kg wet	1.67		106	40-140	11.8	20	V-20	
Pentachloronitrobenzene	1.63	0.34	mg/Kg wet	1.67		97.5	40-140	18.2	20	V-16	
Pentachlorophenol	0.995	0.34	mg/Kg wet	1.67		59.7	30-130	15.5	50		‡
Phenanthrene	1.52	0.17	mg/Kg wet	1.67		91.2	40-140	15.7	20		
Phenol	1.57	0.34	mg/Kg wet	1.67		94.0	20-130	12.2	20		†
Pyrene	1.52	0.17	mg/Kg wet	1.67		90.9	40-140	14.0	20		
1,2,4,5-Tetrachlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.7	40-140	14.3	20		
2,4,5-Trichlorophenol	1.42	0.34	mg/Kg wet	1.67		85.0	30-130	15.2	20		
2,4,6-Trichlorophenol	1.41	0.34	mg/Kg wet	1.67		84.9	30-130	15.7	50		‡
Surrogate: 2-Fluorophenol	*6.07*		mg/Kg wet	6.67		91.0	30-130				
Surrogate: Phenol-d6	*7.15*		mg/Kg wet	6.67		107	30-130				
Surrogate: Nitrobenzene-d5	*3.40*		mg/Kg wet	3.33		102	30-130				
Surrogate: 2-Fluorobiphenyl	*3.25*		mg/Kg wet	3.33		97.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*8.09*		mg/Kg wet	6.67		121	30-130				
Surrogate: p-Terphenyl-d14	*3.94*		mg/Kg wet	3.33		118	30-130				

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QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156013 - SW-846 3546										
Blank (B156013-BLK1)				Prepared: 08/12/16 Analyzed: 08/13/16						
Furan, 2,5-dimethyl-	0.38		mg/Kg wet							

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156014 - SW-846 3546										
Blank (B156014-BLK1)				Prepared: 08/12/16 Analyzed: 08/14/16						
alpha-Chlordane	ND	0.0050	mg/Kg wet							
alpha-Chlordane [2C]	ND	0.0050	mg/Kg wet							
gamma-Chlordane	ND	0.0050	mg/Kg wet							
gamma-Chlordane [2C]	ND	0.0050	mg/Kg wet							
Alachlor	ND	0.020	mg/Kg wet							
Alachlor [2C]	ND	0.020	mg/Kg wet							
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0060	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0060	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Toxaphene	ND	0.10	mg/Kg wet							
Toxaphene [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.187*		mg/Kg wet	0.200		93.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156014 - SW-846 3546										
LCS (B156014-BS1)				Prepared: 08/12/16 Analyzed: 08/14/16						
alpha-Chlordane	0.095	0.0050	mg/Kg wet	0.100		95.1	40-140			
alpha-Chlordane [2C]	0.095	0.0050	mg/Kg wet	0.100		94.7	40-140			
gamma-Chlordane	0.092	0.0050	mg/Kg wet	0.100		91.9	40-140			
gamma-Chlordane [2C]	0.094	0.0050	mg/Kg wet	0.100		93.9	40-140			
Alachlor	0.097	0.020	mg/Kg wet	0.100		96.5	40-140			
Alachlor [2C]	0.095	0.020	mg/Kg wet	0.100		95.5	40-140			
Aldrin	0.096	0.0050	mg/Kg wet	0.100		95.6	40-140			
Aldrin [2C]	0.096	0.0050	mg/Kg wet	0.100		96.2	40-140			
alpha-BHC	0.093	0.0050	mg/Kg wet	0.100		92.9	40-140			
alpha-BHC [2C]	0.089	0.0050	mg/Kg wet	0.100		89.2	40-140			
beta-BHC	0.088	0.0050	mg/Kg wet	0.100		87.9	40-140			
beta-BHC [2C]	0.088	0.0050	mg/Kg wet	0.100		88.5	40-140			
delta-BHC	0.065	0.0050	mg/Kg wet	0.100		64.9	40-140			
delta-BHC [2C]	0.065	0.0050	mg/Kg wet	0.100		65.2	40-140			
gamma-BHC (Lindane)	0.094	0.0020	mg/Kg wet	0.100		93.7	40-140			
gamma-BHC (Lindane) [2C]	0.093	0.0020	mg/Kg wet	0.100		92.6	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		99.5	40-140			
4,4'-DDE [2C]	0.099	0.0040	mg/Kg wet	0.100		98.8	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDT [2C]	0.094	0.0040	mg/Kg wet	0.100		94.2	40-140			
Dieldrin	0.093	0.0040	mg/Kg wet	0.100		93.4	40-140			
Dieldrin [2C]	0.096	0.0040	mg/Kg wet	0.100		96.3	40-140			
Endosulfan I	0.090	0.0050	mg/Kg wet	0.100		89.6	40-140			
Endosulfan I [2C]	0.089	0.0050	mg/Kg wet	0.100		89.2	40-140			
Endosulfan II	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140			
Endosulfan II [2C]	0.090	0.0080	mg/Kg wet	0.100		89.5	40-140			
Endosulfan Sulfate	0.088	0.0080	mg/Kg wet	0.100		87.9	40-140			
Endosulfan Sulfate [2C]	0.088	0.0080	mg/Kg wet	0.100		87.7	40-140			
Endrin	0.10	0.0080	mg/Kg wet	0.100		100	40-140			
Endrin [2C]	0.10	0.0080	mg/Kg wet	0.100		99.9	40-140			
Endrin Aldehyde	0.094	0.0080	mg/Kg wet	0.100		93.9	40-140			
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.100		94.7	40-140			
Endrin Ketone	0.096	0.0080	mg/Kg wet	0.100		95.8	40-140			
Endrin Ketone [2C]	0.093	0.0080	mg/Kg wet	0.100		92.8	40-140			
Heptachlor	0.093	0.0050	mg/Kg wet	0.100		92.8	40-140			
Heptachlor [2C]	0.095	0.0050	mg/Kg wet	0.100		95.2	40-140			
Heptachlor Epoxide	0.095	0.0050	mg/Kg wet	0.100		94.8	40-140			
Heptachlor Epoxide [2C]	0.093	0.0050	mg/Kg wet	0.100		93.3	40-140			
Hexachlorobenzene	0.090	0.0060	mg/Kg wet	0.100		89.6	40-140			
Hexachlorobenzene [2C]	0.089	0.0060	mg/Kg wet	0.100		88.8	40-140			
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		97.8	40-140			
Methoxychlor [2C]	0.099	0.050	mg/Kg wet	0.100		99.0	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156014 - SW-846 3546										
LCS Dup (B156014-BSD1)				Prepared: 08/12/16 Analyzed: 08/14/16						
alpha-Chlordane	0.096	0.0050	mg/Kg wet	0.100		95.8	40-140	0.693	30	
alpha-Chlordane [2C]	0.096	0.0050	mg/Kg wet	0.100		96.2	40-140	1.56	30	
gamma-Chlordane	0.093	0.0050	mg/Kg wet	0.100		92.7	40-140	0.822	30	
gamma-Chlordane [2C]	0.095	0.0050	mg/Kg wet	0.100		95.5	40-140	1.70	30	
Alachlor	0.096	0.020	mg/Kg wet	0.100		96.2	40-140	0.354	30	
Alachlor [2C]	0.097	0.020	mg/Kg wet	0.100		96.9	40-140	1.49	30	
Aldrin	0.096	0.0050	mg/Kg wet	0.100		95.6	40-140	0.0523	30	
Aldrin [2C]	0.097	0.0050	mg/Kg wet	0.100		97.3	40-140	1.13	30	
alpha-BHC	0.093	0.0050	mg/Kg wet	0.100		92.8	40-140	0.0237	30	
alpha-BHC [2C]	0.089	0.0050	mg/Kg wet	0.100		89.3	40-140	0.0314	30	
beta-BHC	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	0.885	30	
beta-BHC [2C]	0.090	0.0050	mg/Kg wet	0.100		90.0	40-140	1.73	30	
delta-BHC	0.069	0.0050	mg/Kg wet	0.100		68.7	40-140	5.59	30	
delta-BHC [2C]	0.070	0.0050	mg/Kg wet	0.100		69.7	40-140	6.64	30	
gamma-BHC (Lindane)	0.094	0.0020	mg/Kg wet	0.100		94.5	40-140	0.777	30	
gamma-BHC (Lindane) [2C]	0.095	0.0020	mg/Kg wet	0.100		95.2	40-140	2.82	30	
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		102	40-140	0.787	30	
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		104	40-140	1.66	30	
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		100	40-140	0.622	30	
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140	1.44	30	
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140	0.438	30	
4,4'-DDT [2C]	0.094	0.0040	mg/Kg wet	0.100		94.1	40-140	0.0159	30	
Dieldrin	0.094	0.0040	mg/Kg wet	0.100		94.1	40-140	0.708	30	
Dieldrin [2C]	0.098	0.0040	mg/Kg wet	0.100		97.6	40-140	1.40	30	
Endosulfan I	0.091	0.0050	mg/Kg wet	0.100		90.8	40-140	1.27	30	
Endosulfan I [2C]	0.091	0.0050	mg/Kg wet	0.100		90.9	40-140	1.89	30	
Endosulfan II	0.090	0.0080	mg/Kg wet	0.100		90.0	40-140	2.01	30	
Endosulfan II [2C]	0.091	0.0080	mg/Kg wet	0.100		91.5	40-140	2.17	30	
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		89.5	40-140	1.77	30	
Endosulfan Sulfate [2C]	0.090	0.0080	mg/Kg wet	0.100		89.8	40-140	2.30	30	
Endrin	0.10	0.0080	mg/Kg wet	0.100		101	40-140	0.387	30	
Endrin [2C]	0.10	0.0080	mg/Kg wet	0.100		101	40-140	0.927	30	
Endrin Aldehyde	0.095	0.0080	mg/Kg wet	0.100		94.6	40-140	0.715	30	
Endrin Aldehyde [2C]	0.095	0.0080	mg/Kg wet	0.100		95.3	40-140	0.690	30	
Endrin Ketone	0.097	0.0080	mg/Kg wet	0.100		97.0	40-140	1.24	30	
Endrin Ketone [2C]	0.094	0.0080	mg/Kg wet	0.100		94.1	40-140	1.41	30	
Heptachlor	0.092	0.0050	mg/Kg wet	0.100		92.4	40-140	0.487	30	
Heptachlor [2C]	0.096	0.0050	mg/Kg wet	0.100		95.9	40-140	0.787	30	
Heptachlor Epoxide	0.095	0.0050	mg/Kg wet	0.100		95.3	40-140	0.439	30	
Heptachlor Epoxide [2C]	0.094	0.0050	mg/Kg wet	0.100		94.5	40-140	1.28	30	
Hexachlorobenzene	0.089	0.0060	mg/Kg wet	0.100		88.9	40-140	0.750	30	
Hexachlorobenzene [2C]	0.089	0.0060	mg/Kg wet	0.100		88.5	40-140	0.326	30	
Methoxychlor	0.098	0.050	mg/Kg wet	0.100		98.4	40-140	0.663	30	
Methoxychlor [2C]	0.098	0.050	mg/Kg wet	0.100		98.4	40-140	0.559	30	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.175*		mg/Kg wet	0.200		87.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156015 - SW-846 3546										
Blank (B156015-BLK1)				Prepared: 08/12/16 Analyzed: 08/14/16						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.6	30-150			
LCS (B156015-BS1)				Prepared: 08/12/16 Analyzed: 08/14/16						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.7	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.5	40-140			
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		99.5	40-140			
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg wet	0.200		92.3	30-150			
LCS Dup (B156015-BSD1)				Prepared: 08/12/16 Analyzed: 08/14/16						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		92.1	40-140	1.62	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.4	40-140	1.02	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		91.0	40-140	0.625	30	
Aroclor-1260 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140	1.32	30	
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.6	30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B156058 - SW-846 8151											
Blank (B156058-BLK1)				Prepared: 08/15/16 Analyzed: 08/17/16							
2,4-D	ND	24	µg/kg wet								
2,4-D [2C]	ND	24	µg/kg wet								
2,4-DB	ND	24	µg/kg wet								
2,4-DB [2C]	ND	24	µg/kg wet								
2,4,5-TP (Silvex)	ND	2.4	µg/kg wet								
2,4,5-TP (Silvex) [2C]	ND	2.4	µg/kg wet								
2,4,5-T	ND	2.4	µg/kg wet								
2,4,5-T [2C]	ND	2.4	µg/kg wet								
Dalapon	ND	59	µg/kg wet								
Dalapon [2C]	ND	59	µg/kg wet								L-04
Dicamba	ND	2.4	µg/kg wet								
Dicamba [2C]	ND	2.4	µg/kg wet								
Dichloroprop	ND	24	µg/kg wet								
Dichloroprop [2C]	ND	24	µg/kg wet								
Dinoseb	ND	12	µg/kg wet								
Dinoseb [2C]	ND	12	µg/kg wet								V-20
MCPA	ND	2400	µg/kg wet								
MCPA [2C]	ND	2400	µg/kg wet								
MCPP	ND	2400	µg/kg wet								
MCPP [2C]	ND	2400	µg/kg wet								
Surrogate: 2,4-Dichlorophenylacetic acid	*63.8*		µg/kg wet	95.0		67.2		30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*62.8*		µg/kg wet	95.0		66.1		30-150			
LCS (B156058-BS1)				Prepared: 08/15/16 Analyzed: 08/17/16							
2,4-D	75.1	25	µg/kg wet	125		60.2		40-140			
2,4-D [2C]	72.0	25	µg/kg wet	125		57.8		40-140			
2,4-DB	76.5	25	µg/kg wet	125		61.4		40-140			
2,4-DB [2C]	80.2	25	µg/kg wet	125		64.4		40-140			
2,4,5-TP (Silvex)	7.91	2.5	µg/kg wet	12.5		63.5		40-140			
2,4,5-TP (Silvex) [2C]	7.76	2.5	µg/kg wet	12.5		62.3		40-140			
2,4,5-T	7.41	2.5	µg/kg wet	12.5		59.5		40-140			
2,4,5-T [2C]	7.43	2.5	µg/kg wet	12.5		59.6		40-140			
Dalapon	132	62	µg/kg wet	312		42.3		40-140			
Dalapon [2C]	123	62	µg/kg wet	312		**39.5**	*	40-140			L-04
Dicamba	8.06	2.5	µg/kg wet	12.5		64.6		40-140			
Dicamba [2C]	7.74	2.5	µg/kg wet	12.5		62.1		40-140			
Dichloroprop	92.3	25	µg/kg wet	125		74.0		40-140			
Dichloroprop [2C]	103	25	µg/kg wet	125		82.6		40-140			
Dinoseb	5.58	12	µg/kg wet	62.3		8.95		0-42.4			J
Dinoseb [2C]	5.92	12	µg/kg wet	62.3		9.49		0-41.1			V-06, J
MCPA	7950	2500	µg/kg wet	12500		63.8		40-140			
MCPA [2C]	7710	2500	µg/kg wet	12500		61.9		40-140			
MCPP	7360	2500	µg/kg wet	12500		59.0		40-140			
MCPP [2C]	7980	2500	µg/kg wet	12500		64.0		40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	*69.4*		µg/kg wet	99.7		69.6		30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*64.5*		µg/kg wet	99.7		64.7		30-150			

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QUALITY CONTROL

Herbicides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B156058 - SW-846 8151											
LCS Dup (B156058-BSD1)				Prepared: 08/15/16 Analyzed: 08/17/16							
2,4-D	83.2	25	µg/kg wet	125		66.8		40-140	10.3	30	
2,4-D [2C]	79.0	25	µg/kg wet	125		63.4		40-140	9.22	30	
2,4-DB	89.8	25	µg/kg wet	125		72.1		40-140	16.1	30	
2,4-DB [2C]	88.5	25	µg/kg wet	125		71.0		40-140	9.84	30	
2,4,5-TP (Silvex)	8.44	2.5	µg/kg wet	12.5		67.7		40-140	6.49	30	
2,4,5-TP (Silvex) [2C]	8.55	2.5	µg/kg wet	12.5		68.6		40-140	9.74	30	
2,4,5-T	8.20	2.5	µg/kg wet	12.5		65.8		40-140	10.2	30	
2,4,5-T [2C]	8.46	2.5	µg/kg wet	12.5		67.9		40-140	13.0	30	
Dalapon	127	62	µg/kg wet	312		40.8		40-140	3.66	30	
Dalapon [2C]	117	62	µg/kg wet	312		**37.4**	*	40-140	5.46	30	L-04
Dicamba	8.91	2.5	µg/kg wet	12.5		71.5		40-140	10.1	30	
Dicamba [2C]	8.90	2.5	µg/kg wet	12.5		71.4		40-140	14.0	30	
Dichloroprop	101	25	µg/kg wet	125		81.0		40-140	9.00	30	
Dichloroprop [2C]	112	25	µg/kg wet	125		89.9		40-140	8.40	30	
Dinoseb	6.48	12	µg/kg wet	62.3		10.4		0-42.4	15.0	30	J
Dinoseb [2C]	6.78	12	µg/kg wet	62.3		10.9		0-41.1	13.5	30	J, V-06
MCPA	8010	2500	µg/kg wet	12500		64.3		40-140	0.797	30	
MCPA [2C]	8560	2500	µg/kg wet	12500		68.7		40-140	10.5	30	
MCPP	8030	2500	µg/kg wet	12500		64.4		40-140	8.75	30	
MCPP [2C]	8980	2500	µg/kg wet	12500		72.1		40-140	11.8	30	
Surrogate: 2,4-Dichlorophenylacetic acid	*75.8*		µg/kg wet	99.7		76.0		30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*71.4*		µg/kg wet	99.7		71.6		30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156003 - SW-846 3546										
Blank (B156003-BLK1)				Prepared: 08/12/16 Analyzed: 08/15/16						
Diesel Range Organics	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	*3.03*		mg/Kg wet	3.33		91.0	40-140			
LCS (B156003-BS1)				Prepared: 08/12/16 Analyzed: 08/15/16						
Diesel Range Organics	23.8	8.3	mg/Kg wet	33.3		71.3	40-140			
Surrogate: o-Terphenyl	*3.14*		mg/Kg wet	3.33		94.1	40-140			
LCS Dup (B156003-BSD1)				Prepared: 08/12/16 Analyzed: 08/15/16						
Diesel Range Organics	24.8	8.3	mg/Kg wet	33.3		74.4	40-140	4.22		
Surrogate: o-Terphenyl	*3.27*		mg/Kg wet	3.33		98.1	40-140			
Batch B156079 - SW-846 5035/5030B										
Blank (B156079-BLK1)				Prepared & Analyzed: 08/15/16						
Gasoline Range Organics (GRO)	ND	1.0	mg/Kg wet							
Surrogate: 1-Chloro-3-fluorobenzene	*0.0135*		mg/Kg wet	0.0150		90.0	70-130			
LCS (B156079-BS1)				Prepared & Analyzed: 08/15/16						
Gasoline Range Organics (GRO)	0.220	0.010	mg/Kg wet	0.250		87.9	80-120			
Surrogate: 1-Chloro-3-fluorobenzene	*0.0136*		mg/Kg wet	0.0150		90.9	70-130			
LCS Dup (B156079-BSD1)				Prepared & Analyzed: 08/15/16						
Gasoline Range Organics (GRO)	0.216	0.010	mg/Kg wet	0.250		86.3	80-120	1.90	30	
Surrogate: 1-Chloro-3-fluorobenzene	*0.0143*		mg/Kg wet	0.0150		95.1	70-130			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156053 - SW-846 3050B										
Blank (B156053-BLK1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Aluminum	ND	2.5	mg/Kg wet							
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Calcium	ND	7.5	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Cobalt	ND	2.5	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Iron	ND	2.5	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Magnesium	ND	7.5	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Potassium	ND	100	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Sodium	ND	100	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B156053-BS1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Aluminum	6870	5.0	mg/Kg wet	8080		85.0	51.2-148.1			
Antimony	63.4	5.0	mg/Kg wet	88.2		71.9	0-210.3			
Arsenic	52.4	5.0	mg/Kg wet	57.0		91.9	77.8-122.1			
Barium	101	5.0	mg/Kg wet	110		92.3	82-117.4			
Beryllium	68.4	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	74.6	0.50	mg/Kg wet	77.8		95.9	81.9-118.2			
Calcium	6110	15	mg/Kg wet	6450		94.7	81.9-118.2			
Chromium	60.6	1.0	mg/Kg wet	65.0		93.3	78.7-120.6			
Cobalt	56.9	5.0	mg/Kg wet	58.8		96.7	83-116.7			
Copper	55.5	1.0	mg/Kg wet	56.4		98.4	80.4-119.6			
Iron	12200	5.0	mg/Kg wet	14700		83.0	46.8-153			
Lead	79.9	1.5	mg/Kg wet	85.6		93.4	82.4-117.8			
Magnesium	2470	15	mg/Kg wet	2710		91.3	75.5-124.2			
Manganese	258	1.0	mg/Kg wet	273		94.6	80.8-119.2			
Nickel	56.7	1.0	mg/Kg wet	61.3		92.6	82.2-117.8			
Potassium	2440	200	mg/Kg wet	2420		101	69.9-130.1			
Selenium	72.1	10	mg/Kg wet	78.9		91.3	77.1-122.3			
Silver	51.0	1.0	mg/Kg wet	54.2		94.1	74.3-125.4			
Sodium	870	200	mg/Kg wet	914		95.2	69.9-130.5			
Thallium	174	5.0	mg/Kg wet	178		98.0	78.2-121.6			
Vanadium	55.0	2.0	mg/Kg wet	56.3		97.7	64.8-135.2			
Zinc	187	2.0	mg/Kg wet	198		94.4	79.7-120.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156053 - SW-846 3050B										
LCS Dup (B156053-BSD1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Aluminum	7040	5.0	mg/Kg wet	8080		87.1	51.2-148.1	2.46	30	
Antimony	66.6	5.0	mg/Kg wet	88.2		75.6	0-210.3	4.96	30	
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.2	77.8-122.1	3.46	30	
Barium	111	5.0	mg/Kg wet	110		101	82-117.4	8.98	30	
Beryllium	77.0	0.50	mg/Kg wet	67.5		114	82.3-117.7	11.9	30	
Cadmium	78.2	0.50	mg/Kg wet	77.8		100	81.9-118.2	4.67	30	
Calcium	6260	15	mg/Kg wet	6450		97.0	81.9-118.2	2.37	30	
Chromium	63.1	1.0	mg/Kg wet	65.0		97.1	78.7-120.6	4.07	30	
Cobalt	58.1	5.0	mg/Kg wet	58.8		98.8	83-116.7	2.11	30	
Copper	56.6	1.0	mg/Kg wet	56.4		100	80.4-119.6	1.92	30	
Iron	12300	5.0	mg/Kg wet	14700		83.8	46.8-153	0.989	30	
Lead	81.1	1.5	mg/Kg wet	85.6		94.7	82.4-117.8	1.46	30	
Magnesium	2530	15	mg/Kg wet	2710		93.3	75.5-124.2	2.24	30	
Manganese	271	1.0	mg/Kg wet	273		99.1	80.8-119.2	4.68	30	
Nickel	58.3	1.0	mg/Kg wet	61.3		95.2	82.2-117.8	2.78	30	
Potassium	2510	200	mg/Kg wet	2420		104	69.9-130.1	2.65	30	
Selenium	73.2	10	mg/Kg wet	78.9		92.8	77.1-122.3	1.61	30	
Silver	52.7	1.0	mg/Kg wet	54.2		97.2	74.3-125.4	3.28	30	
Sodium	905	200	mg/Kg wet	914		99.0	69.9-130.5	3.91	30	
Thallium	181	5.0	mg/Kg wet	178		102	78.2-121.6	3.85	30	
Vanadium	55.9	2.0	mg/Kg wet	56.3		99.3	64.8-135.2	1.61	30	
Zinc	192	2.0	mg/Kg wet	198		97.1	79.7-120.8	2.91	30	
MRL Check (B156053-MRL1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Lead	0.722	0.74	mg/Kg wet	0.737		97.9	80-120			J
Batch B156083 - SW-846 7471										
Blank (B156083-BLK1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Mercury	ND	0.025	mg/Kg wet							
LCS (B156083-BS1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Mercury	13.2	1.9	mg/Kg wet	12.3		107	73.7-126.3			
LCS Dup (B156083-BSD1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Mercury	11.6	1.9	mg/Kg wet	12.3		94.6	73.7-126.3	12.3	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B155997 - SW-846 7196A										
Blank (B155997-BLK1)				Prepared & Analyzed: 08/12/16						
Hexavalent Chromium	ND	0.16	mg/Kg wet							
LCS (B155997-BS1)				Prepared & Analyzed: 08/12/16						
Hexavalent Chromium	95	3.6	mg/Kg wet	99.2		95.5	80-120			
LCS Dup (B155997-BSD1)				Prepared & Analyzed: 08/12/16						
Hexavalent Chromium	90	3.6	mg/Kg wet	99.4		90.9	80-120	4.75	20	
Batch B156024 - % Solids										
Duplicate (B156024-DUP1)		**Source: 16H0623-01**		Prepared & Analyzed: 08/13/16						
% Solids	81.9		% Wt		87.0			6.04	20	
Duplicate (B156024-DUP3)		**Source: 16H0623-01**		Prepared & Analyzed: 08/13/16						
% Solids	86.8		% Wt		87.0			0.230	20	
Batch B156028 - SW-846 9045C										
LCS (B156028-BS1)				Prepared & Analyzed: 08/12/16						
pH	5.99		pH Units	6.00		99.8	98.4-110			
Batch B156078 - SW-846 9014										
Blank (B156078-BLK1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Cyanide	ND	0.41	mg/Kg wet							
LCS (B156078-BS1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Cyanide	41	2.5	mg/Kg wet	47.8		86.6	80-120			
LCS Dup (B156078-BSD1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Cyanide	41	2.5	mg/Kg wet	48.2		85.8	80-120	0.184	20	
Matrix Spike (B156078-MS1)		**Source: 16H0623-04**		Prepared: 08/15/16 Analyzed: 08/16/16						
Cyanide	19	0.54	mg/Kg dry	16.9	0.56	108	75-125			
Matrix Spike Dup (B156078-MSD1)		**Source: 16H0623-04**		Prepared: 08/15/16 Analyzed: 08/16/16						
Cyanide	17	0.50	mg/Kg dry	15.6	0.56	105	75-125	10.4	35	
Batch B156092 - SW-846 9014										
Blank (B156092-BLK1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Reactive Cyanide	ND	0.40	mg/Kg							

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156092 - SW-846 9014										
LCS (B156092-BS1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Reactive Cyanide	9.5	0.40	mg/Kg	10.0		95.4	90.5-110			
Batch B156093 - SW-846 9030A										
Blank (B156093-BLK1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B156093-BS1)				Prepared: 08/15/16 Analyzed: 08/16/16						
Reactive Sulfide	15	2.0	mg/Kg	14.8		103	61.4-128			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B156036 - SW-846 3010A											
Blank (B156036-BLK1)				Prepared & Analyzed: 08/15/16							
Arsenic	ND	0.010	mg/L								
Barium	ND	0.050	mg/L								
Cadmium	ND	0.0040	mg/L								
Chromium	ND	0.010	mg/L								
Lead	ND	0.010	mg/L								
Selenium	ND	0.050	mg/L								
Silver	ND	0.0050	mg/L								
LCS (B156036-BS1)				Prepared & Analyzed: 08/15/16							
Arsenic	0.566	0.010	mg/L	0.500		113		80-120			
Barium	0.527	0.050	mg/L	0.500		105		80-120			
Cadmium	0.550	0.0040	mg/L	0.500		110		80-120			
Chromium	0.520	0.010	mg/L	0.500		104		80-120			
Lead	0.507	0.010	mg/L	0.500		101		80-120			
Selenium	0.598	0.050	mg/L	0.500		120		80-120			
Silver	0.557	0.0050	mg/L	0.500		111		80-120			
LCS Dup (B156036-BSD1)				Prepared & Analyzed: 08/15/16							
Arsenic	0.549	0.010	mg/L	0.500		110		80-120	3.16	20	
Barium	0.517	0.050	mg/L	0.500		103		80-120	1.77	20	
Cadmium	0.538	0.0040	mg/L	0.500		108		80-120	2.10	20	
Chromium	0.510	0.010	mg/L	0.500		102		80-120	2.04	20	
Lead	0.494	0.010	mg/L	0.500		98.8		80-120	2.67	20	
Selenium	0.573	0.050	mg/L	0.500		115		80-120	4.29	20	
Silver	0.543	0.0050	mg/L	0.500		109		80-120	2.48	20	
Matrix Spike (B156036-MS1)		**Source: 16H0623-04**		Prepared & Analyzed: 08/15/16							
Arsenic	0.521	0.010	mg/L	0.500	ND	104		75-125			
Barium	1.08	0.050	mg/L	0.500	0.603	94.8		75-125			
Cadmium	0.533	0.0040	mg/L	0.500	0.00880	105		75-125			
Chromium	0.495	0.010	mg/L	0.500	ND	99.1		75-125			
Lead	0.637	0.010	mg/L	0.500	0.176	92.2		75-125			
Selenium	0.644	0.050	mg/L	0.500	ND	**129**	*	75-125			MS-14
Silver	0.536	0.0050	mg/L	0.500	ND	107		75-125			
Batch B156050 - SW-846 7470A Prep											
Blank (B156050-BLK1)				Prepared & Analyzed: 08/15/16							
Mercury	ND	0.00010	mg/L								
LCS (B156050-BS1)				Prepared & Analyzed: 08/15/16							
Mercury	0.00164	0.00010	mg/L	0.00200		81.9		80-120			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B156050 - SW-846 7470A Prep										
LCS Dup (B156050-BSD1)				Prepared & Analyzed: 08/15/16						
Mercury	0.00179	0.00010	mg/L	0.00200		89.3	80-120	8.67	20	
Matrix Spike (B156050-MS1)		**Source: 16H0623-04**		Prepared & Analyzed: 08/15/16						
Mercury	0.00178	0.00010	mg/L	0.00200	0.0000312	87.3	75-125			

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BREAKDOWN REPORT

Lab Sample ID: **S011821-PEM1** **Analyzed:** **08/12/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.60
Endrin [1]	4.72

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.58
Endrin [2]	4.39

BREAKDOWN REPORT

Lab Sample ID: **S011821-PEM2** **Analyzed:** **08/13/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.66
Endrin [1]	4.32

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.70
Endrin [2]	3.81

BREAKDOWN REPORT

Lab Sample ID: **S011821-PEM3** **Analyzed:** **08/13/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.26
Endrin [1]	1.68

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BREAKDOWN REPORT

Lab Sample ID: **S011821-PEM3** **Analyzed:** **08/13/2016**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.35
Endrin [2]	1.28

BREAKDOWN REPORT

Lab Sample ID: **S011822-PEM1** **Analyzed:** **08/14/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.89
Endrin [1]	2.21

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.91
Endrin [2]	1.96

BREAKDOWN REPORT

Lab Sample ID: **S011824-PEM1** **Analyzed:** **08/15/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	1.81
Endrin [1]	2.25

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.83
Endrin [2]	2.09

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

TRC-SB-Comp

Lab Sample ID: 16H0623-04RE1 Date(s) Analyzed: 08/15/2016 08/15/2016

Instrument ID (1): ECD6 Instrument ID (2): ECD6

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	6.95	-0.03	0.03	0.0011	
	2	7.02	-0.03	0.03	0.0012	6.0
4,4'-DDE	1	6.52	-0.03	0.03	0.0036	
	2	6.60	-0.03	0.03	0.0071	65.7
4,4'-DDT	1	7.16	-0.03	0.03	0.0031	
	2	7.25	-0.03	0.03	0.0047	41.6
Aldrin	1	5.88	-0.03	0.03	0.00054	
	2	5.85	-0.03	0.03	0.0012	75.7
alpha-Chlordane	1	6.46	-0.03	0.03	0.010	
	2	6.46	-0.03	0.03	0.0067	43.3
Chlordane	1	0.00	-0.03	0.03	0.065	
	2	0.00	-0.03	0.03	0.059	9.7
Dieldrin	1	6.73	-0.03	0.03	0.0025	
	2	6.69	-0.03	0.03	0.0032	23.8
gamma-Chlordane	1	6.37	-0.03	0.03	0.0094	
	2	6.36	-0.03	0.03	0.0069	30.7
Heptachlor Epoxide	1	6.29	-0.03	0.03	0.00096	
	2	6.24	-0.03	0.03	0.00081	16.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B156014-BS1 Date(s) Analyzed: 08/13/2016 08/14/2016

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	6.95	-0.03	0.03	0.10	
	2	7.02	-0.03	0.03	0.10	1
4,4'-DDE	1	6.52	-0.03	0.03	0.10	
	2	6.59	-0.03	0.03	0.099	1
4,4'-DDT	1	7.16	-0.03	0.03	0.10	
	2	7.25	-0.03	0.03	0.094	7
Alachlor	1	5.99	-0.03	0.03	0.097	
	2	5.81	-0.03	0.03	0.095	2
Aldrin	1	5.88	-0.03	0.03	0.096	
	2	5.85	-0.03	0.03	0.096	0
alpha-BHC	1	5.23	-0.03	0.03	0.093	
	2	5.20	-0.03	0.03	0.089	4
alpha-Chlordane	1	6.46	-0.03	0.03	0.095	
	2	6.46	-0.03	0.03	0.095	0
beta-BHC	1	5.47	-0.03	0.03	0.088	
	2	5.46	-0.03	0.03	0.088	0
delta-BHC	1	5.57	-0.03	0.03	0.065	
	2	5.63	-0.03	0.03	0.065	0
Dieldrin	1	6.72	-0.03	0.03	0.093	
	2	6.69	-0.03	0.03	0.096	3
Endosulfan I	1	6.55	-0.03	0.03	0.090	
	2	6.50	-0.03	0.03	0.089	1
Endosulfan II	1	7.05	-0.03	0.03	0.088	
	2	7.07	-0.03	0.03	0.090	2
Endosulfan Sulfate	1	7.70	-0.03	0.03	0.088	
	2	7.54	-0.03	0.03	0.088	0
Endrin	1	6.89	-0.03	0.03	0.10	
	2	6.91	-0.03	0.03	0.10	0
Endrin Aldehyde	1	7.37	-0.03	0.03	0.094	
	2	7.33	-0.03	0.03	0.095	1
Endrin Ketone	1	7.91	-0.03	0.03	0.096	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B156014-BS1 Date(s) Analyzed: 08/13/2016 08/14/2016

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
	2	7.95	-0.03	0.03	0.093	3
gamma-BHC (Lindane)	1	5.41	-0.03	0.03	0.094	
	2	5.40	-0.03	0.03	0.093	1
gamma-Chlordane	1	6.37	-0.03	0.03	0.092	
	2	6.36	-0.03	0.03	0.094	2
Heptachlor	1	5.70	-0.03	0.03	0.093	
	2	5.66	-0.03	0.03	0.095	2
Heptachlor Epoxide	1	6.29	-0.03	0.03	0.095	
	2	6.23	-0.03	0.03	0.093	2
Hexachlorobenzene	1	5.13	-0.03	0.03	0.090	
	2	5.12	-0.03	0.03	0.089	1
Methoxychlor	1	7.54	-0.03	0.03	0.098	
	2	7.81	-0.03	0.03	0.099	1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B156014-BSD1 Date(s) Analyzed: 08/13/2016 08/14/2016

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	6.95	-0.03	0.03	0.10	
	2	7.02	-0.03	0.03	0.10	2
4,4'-DDE	1	6.52	-0.03	0.03	0.10	
	2	6.59	-0.03	0.03	0.10	0
4,4'-DDT	1	7.16	-0.03	0.03	0.10	
	2	7.25	-0.03	0.03	0.094	8
Alachlor	1	5.99	-0.03	0.03	0.096	
	2	5.81	-0.03	0.03	0.097	1
Aldrin	1	5.88	-0.03	0.03	0.096	
	2	5.85	-0.03	0.03	0.097	1
alpha-BHC	1	5.23	-0.03	0.03	0.093	
	2	5.20	-0.03	0.03	0.089	4
alpha-Chlordane	1	6.46	-0.03	0.03	0.096	
	2	6.46	-0.03	0.03	0.096	0
beta-BHC	1	5.46	-0.03	0.03	0.089	
	2	5.46	-0.03	0.03	0.090	2
delta-BHC	1	5.57	-0.03	0.03	0.069	
	2	5.63	-0.03	0.03	0.070	2
Dieldrin	1	6.72	-0.03	0.03	0.094	
	2	6.69	-0.03	0.03	0.098	4
Endosulfan I	1	6.55	-0.03	0.03	0.091	
	2	6.50	-0.03	0.03	0.091	0
Endosulfan II	1	7.05	-0.03	0.03	0.090	
	2	7.07	-0.03	0.03	0.091	1
Endosulfan Sulfate	1	7.70	-0.03	0.03	0.089	
	2	7.54	-0.03	0.03	0.090	1
Endrin	1	6.89	-0.03	0.03	0.10	
	2	6.91	-0.03	0.03	0.10	1
Endrin Aldehyde	1	7.37	-0.03	0.03	0.095	
	2	7.33	-0.03	0.03	0.095	0
Endrin Ketone	1	7.92	-0.03	0.03	0.097	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B156014-BSD1 Date(s) Analyzed: 08/13/2016 08/14/2016

Instrument ID (1): ECD6A Instrument ID (2): ECD6B

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
	2	7.95	-0.03	0.03	0.094	3
gamma-BHC (Lindane)	1	5.41	-0.03	0.03	0.094	
	2	5.40	-0.03	0.03	0.095	1
gamma-Chlordane	1	6.37	-0.03	0.03	0.093	
	2	6.36	-0.03	0.03	0.095	2
Heptachlor	1	5.70	-0.03	0.03	0.092	
	2	5.66	-0.03	0.03	0.096	4
Heptachlor Epoxide	1	6.28	-0.03	0.03	0.095	
	2	6.23	-0.03	0.03	0.094	1
Hexachlorobenzene	1	5.13	-0.03	0.03	0.089	
	2	5.12	-0.03	0.03	0.089	0
Methoxychlor	1	7.54	-0.03	0.03	0.098	
	2	7.81	-0.03	0.03	0.098	0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B156015-BS1

Date(s) Analyzed: 08/14/2016 08/14/2016

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.18	1
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.20	10

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B156015-BSD1 Date(s) Analyzed: 08/14/2016 08/14/2016

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.18	2
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.20	9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8151A

LCS

Lab Sample ID: B156058-BS1

Date(s) Analyzed: 08/17/2016 08/17/2016

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
2,4,5-T	1	14.45	0.00	0.00	7.41	
	2	14.10	0.00	0.00	7.43	0
2,4,5-TP (Silvex)	1	13.86	0.00	0.00	7.91	
	2	13.30	0.00	0.00	7.76	2
2,4-D	1	12.13	0.00	0.00	75.1	
	2	11.69	0.00	0.00	72.0	4
2,4-DB	1	15.61	0.00	0.00	76.5	
	2	15.18	0.00	0.00	80.2	5
Dalapon	1	3.95	0.00	0.00	132	
	2	3.43	0.00	0.00	123	7
Dicamba	1	10.18	0.00	0.00	8.06	
	2	9.70	0.00	0.00	7.74	4
Dichloroprop	1	11.66	0.00	0.00	92.3	
	2	11.07	0.00	0.00	103	11
Dinoseb	1	17.12	0.00	0.00	5.58	
	2	15.78	0.00	0.00	5.92	6
MCPA	1	10.94	0.00	0.00	7950	
	2	10.45	0.00	0.00	7710	3
MCPP	1	10.64	0.00	0.00	7360	
	2	10.01	0.00	0.00	7980	8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8151A

LCS Dup

Lab Sample ID: B156058-BSD1 Date(s) Analyzed: 08/17/2016 08/17/2016

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
2,4,5-T	1	14.45	0.00	0.00	8.20	
	2	14.10	0.00	0.00	8.46	3
2,4,5-TP (Silvex)	1	13.86	0.00	0.00	8.44	
	2	13.30	0.00	0.00	8.55	1
2,4-D	1	12.13	0.00	0.00	83.2	
	2	11.69	0.00	0.00	79.0	5
2,4-DB	1	15.62	0.00	0.00	89.8	
	2	15.18	0.00	0.00	88.5	1
Dalapon	1	3.95	0.00	0.00	127	
	2	3.44	0.00	0.00	117	8
Dicamba	1	10.18	0.00	0.00	8.91	
	2	9.70	0.00	0.00	8.90	0
Dichloroprop	1	11.66	0.00	0.00	101	
	2	11.07	0.00	0.00	112	10
Dinoseb	1	17.12	0.00	0.00	6.48	
	2	15.78	0.00	0.00	6.78	5
MCPA	1	10.94	0.00	0.00	8010	
	2	10.46	0.00	0.00	8560	7
MCPP	1	10.64	0.00	0.00	8030	
	2	10.01	0.00	0.00	8980	11

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
MS-14	Matrix spike recovery is outside of control limits. Data validation is not affected since sample result is "not detected" and recovery bias is on the high side for this compound.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
P-02	Sample RPD between primary and confirmatory analysis exceeded 40%. Per EPA method 8000, the lower value was reported due to obvious chromatographic interference on the column with the higher result.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1030 in Soil	
Ignitability	NY,NH,CT,NC,ME,VA
SW-846 6010C-D in Soil	
Aluminum	CT,NH,NY,ME,VA,NC
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Calcium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Cobalt	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Magnesium	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Potassium	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Sodium	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6010C-D in Water	
Arsenic	NY,CT,NC,ME,NH,VA
Barium	NY,CT,ME,NC,NH,VA
Cadmium	NY,CT,ME,NC,NH,VA
Chromium	NY,CT,ME,NC,NH,VA
Lead	NY,CT,ME,NC,NH,VA
Selenium	CT,ME,NC,NH,NY,VA
Silver	CT,ME,NC,NH,NY,VA
SW-846 7196A in Soil	
Hexavalent Chromium	NY,CT,NH,NC,ME,VA
SW-846 7470A in Water	
Mercury	CT,ME,NC,NH,NY,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8015C in Soil	
Gasoline Range Organics (GRO)	NY,VA,NH,NC
Diesel Range Organics	NY,VA,NH,NC
SW-846 8081B in Soil	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA
Toxaphene [2C]	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
alpha-Chlordane	NC
alpha-Chlordane [2C]	NC
gamma-Chlordane	NC
gamma-Chlordane [2C]	NC
Alachlor	NC
Alachlor [2C]	NC
Aldrin	CT,NH,NY,ME,NC,VA
Aldrin [2C]	CT,NH,NY,ME,NC,VA
alpha-BHC	CT,NH,NY,ME,NC,VA
alpha-BHC [2C]	CT,NH,NY,ME,NC,VA
beta-BHC	CT,NH,NY,ME,NC,VA
beta-BHC [2C]	CT,NH,NY,ME,NC,VA
delta-BHC	CT,NH,NY,ME,NC,VA
delta-BHC [2C]	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane)	CT,NH,NY,ME,NC,VA
gamma-BHC (Lindane) [2C]	CT,NH,NY,ME,NC,VA
Chlordane	CT,NH,NY,ME,NC,VA
Chlordane [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDD	CT,NH,NY,ME,NC,VA
4,4'-DDD [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDE	CT,NH,NY,ME,NC,VA
4,4'-DDE [2C]	CT,NH,NY,ME,NC,VA
4,4'-DDT	CT,NH,NY,ME,NC,VA
4,4'-DDT [2C]	CT,NH,NY,ME,NC,VA
Dieldrin	CT,NH,NY,ME,NC,VA
Dieldrin [2C]	CT,NH,NY,ME,NC,VA
Endosulfan I	CT,NH,NY,ME,NC,VA
Endosulfan I [2C]	CT,NH,NY,ME,NC,VA
Endosulfan II	CT,NH,NY,ME,NC,VA
Endosulfan II [2C]	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate	CT,NH,NY,ME,NC,VA
Endosulfan Sulfate [2C]	CT,NH,NY,ME,NC,VA
Endrin	CT,NH,NY,ME,NC,VA
Endrin [2C]	CT,NH,NY,ME,NC,VA
Endrin Aldehyde	CT,NH,NY,ME,NC,VA
Endrin Aldehyde [2C]	CT,NH,NY,ME,NC,VA
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NH,NY,ME,NC,VA
Heptachlor [2C]	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide	CT,NH,NY,ME,NC,VA
Heptachlor Epoxide [2C]	CT,NH,NY,ME,NC,VA
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NH,NY,ME,NC,VA
Methoxychlor [2C]	CT,NH,NY,ME,NC,VA
Toxaphene	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Water	
Toxaphene [2C]	CT,NH,NY,ME,NC,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH,VA,CT
2,4-D [2C]	NY,ME,NC,NH,VA,CT
2,4-DB	NY,ME,NC,NH,VA,CT
2,4-DB [2C]	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex)	NY,ME,NC,NH,VA,CT
2,4,5-TP (Silvex) [2C]	NY,ME,NC,NH,VA,CT
2,4,5-T	NY,ME,NC,NH,VA,CT
2,4,5-T [2C]	NY,ME,NC,NH,VA,CT
Dalapon	NY,ME,NC,NH,VA,CT
Dalapon [2C]	NY,ME,NC,NH,VA,CT
Dicamba	NY,ME,NC,NH,VA,CT
Dicamba [2C]	NY,ME,NC,NH,VA,CT
Dichloroprop	NY,ME,NC,NH,VA,CT
Dichloroprop [2C]	NY,ME,NC,NH,VA,CT
Dinoseb	NY,ME,NC,NH,VA,CT
Dinoseb [2C]	NY,ME,NC,NH,VA,CT
MCPA	NY,ME,NC,NH,VA,CT
MCPA [2C]	NY,ME,NC,NH,VA,CT
MCPP	NY,ME,NC,NH,VA,CT
MCPP [2C]	NY,ME,NC,NH,VA,CT
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME,VA
Acrylonitrile	CT,NH,NY,ME,VA
Benzene	CT,NH,NY,ME,VA
Bromochloromethane	NH,NY,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA
Bromomethane	CT,NH,NY,ME,VA
2-Butanone (MEK)	CT,NH,NY,ME,VA
n-Butylbenzene	CT,NH,NY,ME,VA
sec-Butylbenzene	CT,NH,NY,ME,VA
tert-Butylbenzene	CT,NH,NY,ME,VA
Carbon Disulfide	CT,NH,NY,ME,VA
Carbon Tetrachloride	CT,NH,NY,ME,VA
Chlorobenzene	CT,NH,NY,ME,VA
Chlorodibromomethane	CT,NH,NY,ME,VA
Chloroethane	CT,NH,NY,ME,VA
Chloroform	CT,NH,NY,ME,VA
Chloromethane	CT,NH,NY,ME,VA
1,2-Dichlorobenzene	CT,NH,NY,ME,VA
1,3-Dichlorobenzene	CT,NH,NY,ME,VA
1,4-Dichlorobenzene	CT,NH,NY,ME,VA
Dichlorodifluoromethane (Freon 12)	NH,NY,ME,VA
1,1-Dichloroethane	CT,NH,NY,ME,VA
1,2-Dichloroethane	CT,NH,NY,ME,VA
1,1-Dichloroethylene	CT,NH,NY,ME,VA
cis-1,2-Dichloroethylene	CT,NH,NY,ME,VA
trans-1,2-Dichloroethylene	CT,NH,NY,ME,VA
1,2-Dichloropropane	CT,NH,NY,ME,VA
1,3-Dichloropropane	NH,NY,ME,VA
cis-1,3-Dichloropropene	CT,NH,NY,ME,VA
trans-1,3-Dichloropropene	CT,NH,NY,ME,VA
Ethylbenzene	CT,NH,NY,ME,VA
Hexachlorobutadiene	NH,NY,ME,VA
2-Hexanone (MBK)	CT,NH,NY,ME,VA
Isopropylbenzene (Cumene)	CT,NH,NY,ME,VA
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY,VA
Methylene Chloride	CT,NH,NY,ME,VA
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,VA
Naphthalene	NH,NY,ME,VA
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME,VA
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME,VA
Tetrachloroethylene	CT,NH,NY,ME,VA
Toluene	CT,NH,NY,ME,VA
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME,VA
1,1,1-Trichloroethane	CT,NH,NY,ME,VA
1,1,2-Trichloroethane	CT,NH,NY,ME,VA
Trichloroethylene	CT,NH,NY,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA
1,3,5-Trimethylbenzene	CT,NH,NY,ME,VA
Vinyl Chloride	CT,NH,NY,ME,VA
m+p Xylene	CT,NH,NY,ME,VA
o-Xylene	CT,NH,NY,ME,VA
Xylenes (total)	NY
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Aniline	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzidine	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodimethylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachloronitrobenzene	NC
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC
SW-846 9014 in Soil	
Cyanide	NY,CT,NC,ME,NH,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2017
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2017
FL	Florida Department of Health	E871027 NELAP	06/30/2017
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2017
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

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CHAIN OF CUSTODY RECORD

16H0623

Rev 04.05.12

39 Spruce Street
East Longmeadow, MA 01028

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Attention: Lindsay Metcalf
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Project #: 262757.0000.0000
Client PO#: 98853

DATA DELIVERY (check all that apply)
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Fax #:
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Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs - 8260 C TCL + DEC Policy 51, DOB	Total Petroleum Hydrocarbons (Diesel + Oil & Grease)	SVOCs - 8270D + TICs	Tot. Met - 6010/7470 TAL including cyanide & hex chrom	Herb + Pest - 8081A + 8151A TCL + SVOC	Corrosivity - 9040C	Reactivity - Sulfide + CN	Ignitability - 1010A	PCBs - 8082 TCL PCBs	TCLP RCRA metals
							# of Containers	3	1	2	—	—	—	—	—	—	—
							** Preservation	1	—	—	—	—	—	—	—	—	—
							***Container Code	6	6	6	6	6	6	6	6	6	6
01	TRC-SB-1	8/12 0930	8/12 0930		X	S	C/U	X	X								
02	TRC-SB-2	0950	0950					X	X								
03	TRC-SB-3	1040	1040					X	X								
04	TRC-SB-COMP	0930	1040	X						X	X	X	X	X	X	X	X

ANALYSIS REQUESTED

Comments: NYCSCA project
→ Please see attached compound lists for specific parameters 8260/8270 (con ATSU reference lab package 16G0709)

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW = groundwater
WW = wastewater
DW = drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
[signature]	8/12/16 14:10
Received by: (signature) [signature] 8/12/16	Date/Time: 14:10
Relinquished by: (signature) [signature] 8/12/16	Date/Time: 19:15
Received by: (signature) [signature] 5.5 8/12/16	Date/Time: 19:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certifie

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: TRC Engineers **RECEIVED BY:** JM **DATE:** 8/12/16

1) **Was the chain(s) of custody relinquished and signed?** **Yes** ✓ **No** ____ **No COC Incl.**
2) **Does the chain agree with the samples?** **Yes** ✓ **No** ____
   If not, explain:
3) **Are all the samples in good condition?** **Yes** ✓ **No** ____
   If not, explain:
4) **How were the samples received:**
   On Ice ✓ Direct from Sampling ____ Ambient ____ In Cooler(s) ✓
   Were the samples received in Temperature Compliance of (2-6°C)? **Yes** ✓ **No** ____ **N/A** ____
   Temperature °C by Temp blank ____ Temperature °C by Temp gun 5.5
5) **Are there Dissolved samples for the lab to filter?** **Yes** ____ **No** ✓
   Who was notified ____ Date ____ Time ____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** ✓ **No** ____
   Who was notified Br. & Amber Date 8/12/16 Time 1920
7) **Location where samples are stored:** Log-In

   Permission to subcontract samples? Yes No ✓
   (Walk-in clients only) if not already approved
   Client Signature: ____
8) **Do all samples have the proper Acid pH:** **Yes** ____ **No** ____ **N/A** ✓
9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** ✓
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** ✓

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	2
500 mL Amber		8 oz amber/clear jar	3
250 mL Amber (8oz amber)		4 oz amber/clear jar	
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore	9	Other	

40 mL vials:	# HCl ____	# Methanol ____	Time and Date Frozen:
	# Bisulfate ____	# DI Water ____	
	# Thiosulfate ____	Unpreserved ____	

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	N/A	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	N/A	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	N/A	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	N/A	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	N/A	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** JM **Date/Time:** 8/12/16 1915

ATTACHMENT 5

ARCHITECTURAL REVIEW FOR ASBESTOS-CONTAINING MATERIALS

SWANKE HAYDEN CONNELL ARCHITECTS

Joseph J. Aliotta, AIA

295 Lafayette Street, New York, New York 10012
212 219 6789, Fax 212 219 0488

July 29, 2009

New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101-3045

Attn: Ms. E. Bruce Barrett, R.A.
Vice President, Architecture and Engineering

Re: PS. 28Q
Corona, NY 11368

Dear Ms. Barrett,

Please be advised that the architectural documents prepared by Swanke Hayden Connell Architects for the referenced school, was governed by the NYC School Construction Authority Master Specification guidelines and did not specify, note or reference products or materials containing asbestos. We reviewed and approved non-ACM MSDS submittals for the project.

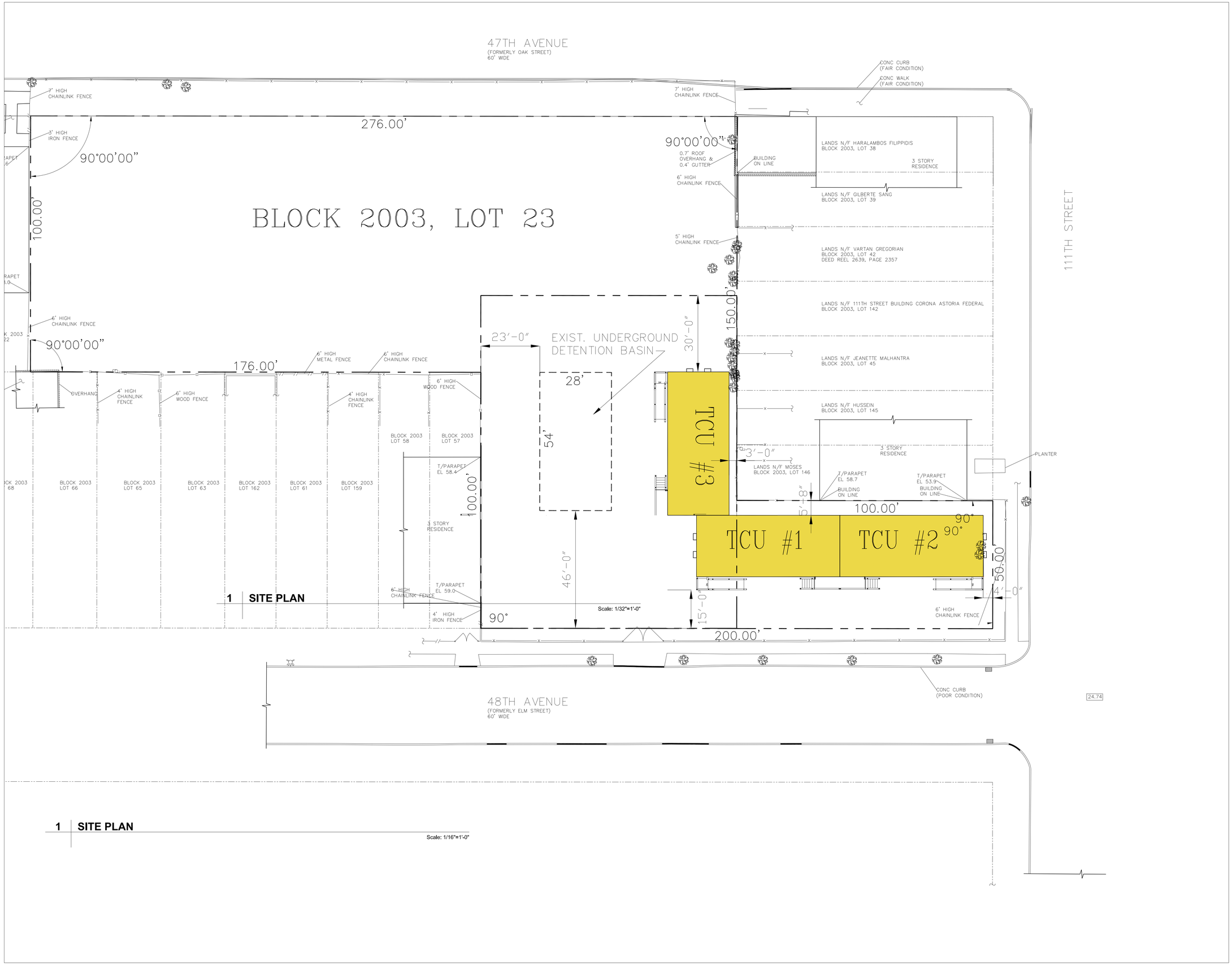
Sincerely,
Swanke Hayden Connell Architects

Joseph J. Aliotta, AIA
Principal

REGISTERED ARCHITECT
JOSEPH J. ALIOTTA
16319
STATE OF NEW YORK

ATTACHMENT 6

TCU INSTALLAION 28Q, TCU SITE PLAN A030.00



President & CEO
Lorraine Grillo

Board of Trustees
Chancellor Carmen Fariña, Chairperson
Curtis A. Harris
Emily A. Youssouf

SCA
NYC School Construction Authority

Architecture & Engineering

E. Bruce Barrett, R.A. LEED A.P., Vice President
Elan R. Abneri, P.E., Senior Director, Design Consultant Management
Stanley Dahir, R.A., Director, Quality Control & Construction Support
María A. Gómez, P.E., LEED A.P., Director, A&E In-House Design
George D. Roussey, P.E., LEED A.P., Director, Technical Standards
Stacey Spann-Thom, Director, Operations Support

Consultants:

Purcell Architects, P.C.
5 W 37th street
New York, NY 10018
TEL: 212-921-1177

Keri Engineering, P.C.
730 Blvd. Suite 22
Kenilworth, NJ 07033
TEL: 973-866-5374

Ysrael A. Seinuk, P.C.
228 East 45th Street
New York, NY 10017
TEL: 212-971-8936

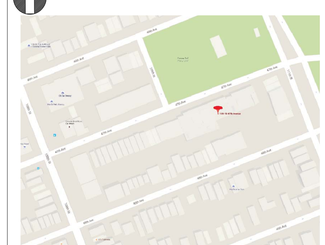
NOTE: Drawing may be printed at reduced scale

IT IS A VIOLATION OF THE STATE EDUCATION LAW SECTION 7209 (2) FOR ANY PERSON TO ALTER AN ITEM IN ANY WAY UNLESS SUCH PERSON IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, AND THE ENGINEER STAMPS SUCH CHANGES

No.	Date	Revision

Key Plan:

N



Block #2003 Lot #23

SCA Design Manager:	B. FORTE
Project Architect/Engineer:	ROBERT PURCELL, R.A.
Discipline Lead:	ROBERT PURCELL, R.A.
Designer:	SHULA REUVENI
Drawn by:	A. DIAZ
Checked by:	ROBERT PURCELL, R.A.

LLW No:	Facility Code:	Date:
XXX	PS XXXQ	07/19/2016

Project:
TCU INSTALLATION
PS 28Q

Address:
109-10 47th Avenue, QUEENS, NY

Drawing Title:
TCU SITE PLAN

Drawing No.:
A030.00

Sheets in Contract Set:
of

Sheets in DOB Set:
of