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August 2, 2016

Ms. Lee Guterman
Director, 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
Proposed Pre-Kindergarten Facility Q428
5-14 49th Avenue, Queens, NY 11101
TRC Project No.: 260992
SCA LLW No.: 105174; IEH Service ID: 64876

Dear Ms. Guterman:

TRC Engineers, Inc. (TRC) has prepared this Waste Characterization Sampling Report for the property located at 5-14 49th Avenue, Queens, New York (the "Site"). A Site Plan is presented as *Figure 1*.

Site Description and Background

The Site consists of a vacant lot (Block 32, Lot 33) encompassing approximately 5,000 square feet. The Site is overgrown with dense vegetation and a perimeter fence restricts access to the Site. TRC understands that the New York City School Construction Authority (NYCSCA) is considering leasing the Site for development of Temporary Classroom Units (TCUs) for use as a Pre-Kindergarten facility. The construction activities will include excavation for utility trenches and footings/foundations for the TCUs.

FIELD ACTIVITY SUMMARY

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

Soil Sampling and Analysis

Waste characterization soil sampling activities were completed on July 15, 2016 by TRC Field Scientist Jenna Raup. NESCO Contracting Group was on-Site to excavate three test pits at the direction of LiRo Group; NY Environmental was on-Site to collect samples of fill material for analysis for asbestos; a geophysical survey contractor was on-Site to provide utility clearance for the proposed locations of the three test pits; and the NYCSCA Project Officer, Mr. Dorel Serban, was on-Site during the initiation of the field activities. The scope of work included the following:

- A geophysical survey was completed by a NYCSCA contractor to identify locations clear of underground utilities and structures. Due to the heavily vegetated ground surface, ground penetrating radar was unable to be utilized during the survey and only the electromagnetic

detection was used. The geophysical survey was conducted to identify locations clear of underground utilities and structures only in the vicinity of the test pits, not on the entire Site. There were no subsurface utilities or structures identified in the vicinity of the test pits during the geophysical survey.

- The NYCSCA's Survey and Design (S&D) Group advanced three test pits, identified as TP-1, TP-2, and TP-3, throughout the Site to a maximum depth of approximately 42 inches below ground surface (bgs). The approximate locations of the test pit excavations are shown on the attached *Figure 1*. As noted above, an asbestos consultant, subcontracted by the NYCSCA, was also present during the completion of the test pit excavations to collect samples of material suspected to contain asbestos. Representative photographs of the field activities are presented in *Appendix A.*

- A TRC Field Scientist screened the soil 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 test pit were recorded in a field logbook. Groundwater was not encountered in any of the test pit excavations. Test pit logs are presented in *Appendix B.*

- One (1) three part composite soil sample was prepared from the samples collected from each test pit from 0 to 42 inches bgs and one discrete grab soil sample was selected for laboratory analysis from each test pit (for a total of three 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 test pit excavations. This sampling frequency (and analyses described below) 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.

- The three discrete soil samples for VOC analysis were collected with En Core® samplers. All other soil samples were collected using dedicated disposable Teflon™ scoops. The composite soil sample was combined in a disposable aluminum pan.

- 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 grab soil samples were analyzed for VOCs via USEPA Method 8260C for Target Compound List [TCL], NYSDEC Commissioner Policy 51 Tables 1, 2 and 3 list [CP-51], and New Jersey Direct Contact Soil Remediation Standards [NJDCRS] list VOCs; and total petroleum hydrocarbons (TPH) diesel and gasoline range organics.

- The composite soil sample was analyzed for semi-volatile organic compounds (SVOCs) via USEPA Method 8270D for TCL, CP-51 and NJDCRS list SVOCs; total metals via USEPA

Methods 6000/7000 for Target Analyte List [TAL] and NJDCRS list metals including cyanide and hexavalent chromium; toxicity characteristic leaching procedure (TCLP) Resource Conservation and Recovery Act (RCRA) 8 metals via USEPA Method 1311/6010; herbicides and pesticides via USEPA Methods 8081A and 8151A (TCL plus Silvex); corrosivity via USEPA Method 9040C; reactivity (sulfide and cyanide); ignitability via USEPA Method 1010A; and, polychlorinated biphenyls (PCBs) via EPA Method 8082 for TCL PCBs. The Laboratory Analytical Data Report is presented in *Attachment C*[1].

SOIL SAMPLING RESULTS

There was no evidence of potential contamination observed in the soil samples other than debris. In general, brown sand with gravel, red brick fragments and concrete were observed in the soil borings. Along the western side-wall of test pit TP-1 a buried structure consisting of red bricks, which appeared to be a historic foundation, was encountered. Due to time constraints, the limits of the structure were not investigated further. Note that in order to transport the samples to the laboratory prior to closing, TRC did not observe the excavation of TP-3 to its terminal depth, which was intended to be 4 feet bgs; therefore, the Test Pit Log in *Appendix B* includes lithology to 24 inches bgs. The results of the analyses of the soil samples are presented in Tables 1 through 8.

The analytical data was compared to the Unrestricted Use Soil Cleanup Objectives (SCOs) found in 6 NYCRR 375-6, Remedial Program Soil Cleanup Objectives, Supplemental Soil Cleanup Objectives/Levels outlined in Table 1, 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.

A summary of the results of the analyses of the soil samples is presented below.

Volatile Organic Compounds (VOCs) in Soil

No VOCs were detected above their respective reporting limits. A summary of the analytical results for VOCs in the soil samples is presented in *Table 1*.

Semi-volatile Organic Compounds (SVOCs) in Soil

Two (2) SVOCs benzo(b)fluoranthene and indeno(1,2,3-cd)pyrene) were detected at concentrations above their corresponding Unrestricted Use SCO found in 6 NYCRR 375 in the composite sample. A summary of the analytical results for SVOCs in the soil samples is presented in *Table 2*.

Metals in Soil (Including Hexavalent Chromium and Cyanide)

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[1] Note that 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.

Nineteen (19) metals were detected in the composite soil sample collected. Three metals (lead, mercury, and zinc) were detected at concentrations above the corresponding Unrestricted Use SCOs found in 6 NYCRR 375-6. A summary of the analytical results for metals in the composite soil sample is presented in *Table 3*.

Polychlorinated Biphenyls (PCBs) in Soil

Total PCBs were detected in the composite soil sample at a concentration of 0.236 milligrams per kilogram (mg/kg) which is above the Unrestricted Use SCO of 0.100 mg/kg. A summary of the analytical results for PCBs in the composite soil sample is presented in *Table 4*.

Pesticides in Soil

Four (4) pesticides/herbicides (chlordane, 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT) were detected in the composite soil sample collected at concentrations above the corresponding Unrestricted Use SCOs found in 6 NYCRR 375. 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 soil samples TRC-TP-1-Grab, TRC-TP-2-Grab, and TRC-TP-3-Grab at concentrations ranging between 54 mg/kg and 260 mg/kg. 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 has a pH of 7.2 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 presented in *Table 8*.

Summary and Conclusions

In summary, no visual or olfactory evidence of potential contamination was observed in the test pit excavations or samples collected other than debris. SVOCs, metals, pesticides, and total PCBs were detected at concentrations exceeding the Unrestricted Use SCOs, which can be attributed to fill material since there was no other evidence of contamination observed in the composite soil sample. There were no exceedances of the TCLP regulatory limits for metals in the composite soil sample. The vertical and lateral extents of the on-Site fill material are not known as this investigation was limited.

Based on the results of the soil characterization, the material characterized by the test pit excavations appears to consist of non-hazardous excavated material. Prior to off-Site disposal of excess excavated soil for development of the Site as a Pre-Kindergarten Facility, 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 prior to shipment. During excavation and management of soil, adequate dust control measures (e.g., wetting the material, etc.) and good hygiene practices (e.g., use of appropriate gloves, hand washing, etc.) should be implemented to limit potential worker exposure to contaminants detected in the soil. 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 it is not anticipated to be disturbed by the proposed redevelopment of the Site.

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

Sincerely,
TRC Engineers, Inc.

Jennifer Miranda
Lead Environmental Scientist

Lindsay Metcalf, CHMM
Associate Environmental Scientist

cc: A. Ciecierska; M. Sherwood, NYCSCA

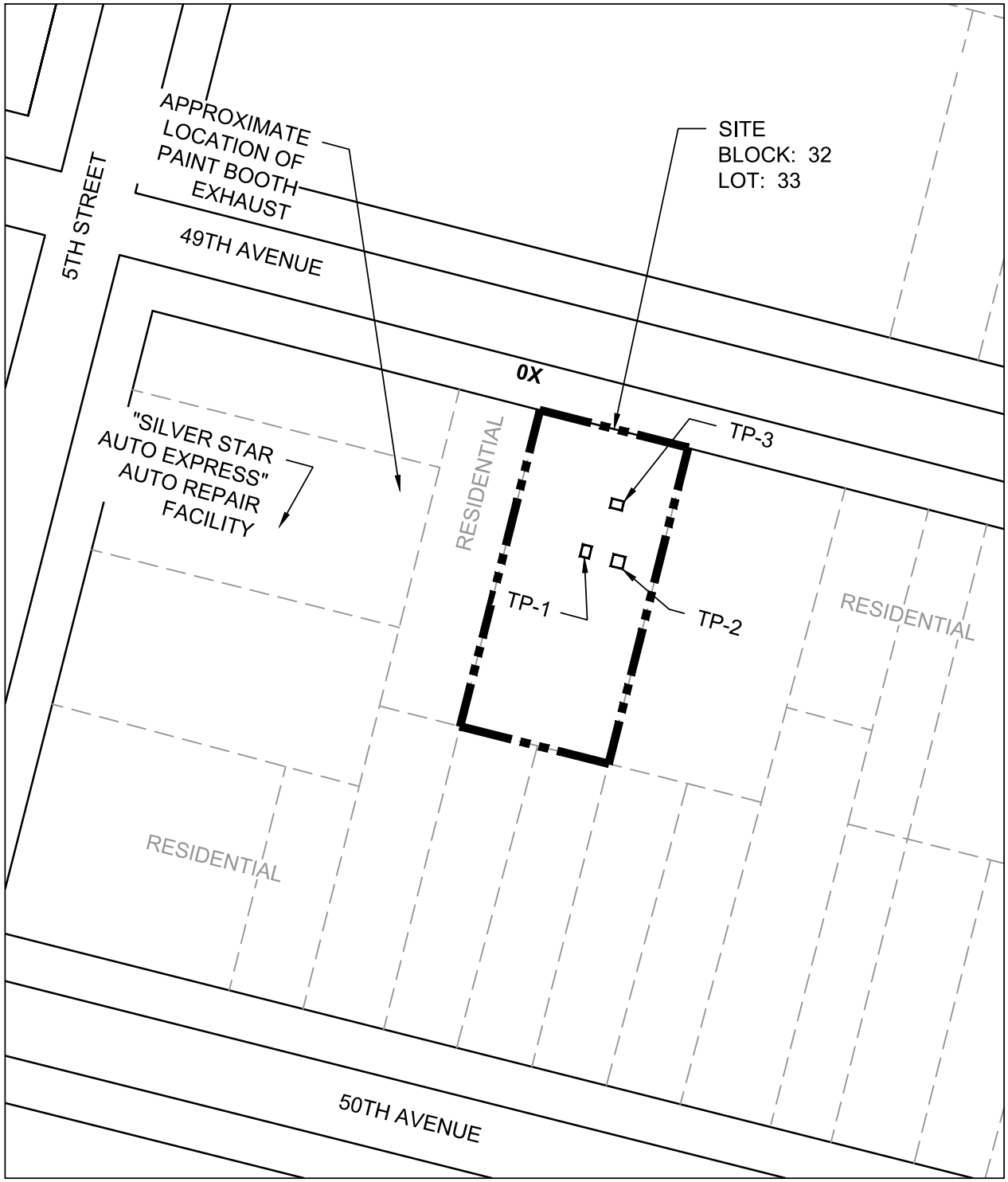
Enclosures:

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 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

Appendices
Appendix A – Photograph Log
Appendix B – Test Pit Logs
Appendix C – Laboratory Analytical Data Report

FIGURES



LEGEND:

	SITE BOUNDARY
	LOT BOUNDARY
COMM.	COMMERCIAL
RES.	RESIDENTIAL
X0	FILL PORT / VENT LINE
TP-X	APPROXIMATE LOCATION OF TEST PIT AND IDENTIFICATION NUMBER

N

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

0 50' 100'

SCALE: 1" = 50'
SHEET SIZE: 8.5" X 11"

ASSUMED GROUNDWATER FLOW DIRECTION

PROJECT:
NEW YORK CITY SCHOOL CONSTRUCTION AUTHORITY
5-14 49TH AVENUE - BLOCK: 32, LOT: 33
LONG ISLAND CITY, NEW YORK 11101

TITLE:
SITE PLAN

DRAWN BY:	HD	PROJ NO.:	260992.0000.0000
CHECKED BY:	JR		**FIGURE 1**
APPROVED BY:	LM		
DATE:	JULY 2016		

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

FILE NO.: Figure 1 - Site Plan.dwg

11x17 — ATTACHED XREF'S: Queens — ATTACHED IMAGES: 5-14 49th ave.msq_image:
DRAWING NAME: \\NTAPA-NYC\Shared\Projects\NYCSCA Contract C000013008\260992 - 5-14 49th Avenue, Long Island City\Test Pits\Figure\ Figure 1 - Site Plan.dwg — PLOT DATE: July 20, 2016 - 5:55PM — LAYOUT: 8.5x11L

TABLES

Table 1
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Volatile Organic Compounds plus TICs
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME				**TRC-TP-1-Grab**		**TRC-TP-2-Grab**		**TRC-TP-3-Grab**	
LAB SAMPLE ID				**16G0709-01**		**16G0709-02**		**16G0709-03**	
DILUTION FACTOR				**1**		**1**		**1**	
DATE SAMPLE COLLECTED				**7/15/2016**		**7/15/2016**		**7/15/2016**	
VOLATILE ORGANIC COMPOUNDS (VOCs)	**Unrestricted Use SCO (mg/kg)**	**CP-51 Table 1 SCL - Residential (mg/kg)**	**CP-51 Table 2+3 SCL (mg/kg)**	**Result (mg/kg)**	**Q**	**Result (mg/kg)**	**Q**	**Result (mg/kg)**	**Q**
Acetone	0.05	NC	NC	<0.092	V-05	<0.090	V-05	<0.091	V-05
Acrylonitrile	NC	NC	NC	<0.0055		<0.0054		<0.0054	
Benzene	0.06	NC	0.06	<0.0018		<0.0018		<0.0018	
Bromochloromethane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
Bromodichloromethane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
Bromoform	NC	NC	NC	<0.0018		<0.0018		<0.0018	
Bromomethane	NC	NC	NC	<0.0092		<0.0090		<0.0091	
2-Butanone (MEK)	0.12	100	NC	<0.037	V-05	<0.036	V-05	<0.036	V-05
tert-Butyl Alcohol (TBA)	NC	NC	NC	<0.037	V-05	<0.036	V-05	<0.036	V-05
n-Butylbenzene	12	NC	12	<0.0018		<0.0018		<0.0018	
sec-Butylbenzene	11	NC	11	<0.0018		<0.0018		<0.0018	
tert-Butylbenzene	5.9	NC	5.9	<0.0018		<0.0018		<0.0018	
Carbon Disulfide	NC	100	NC	<0.0055		<0.0054		<0.0054	
Carbon Tetrachloride	0.76	NC	NC	<0.0018		<0.0018		<0.0018	
Chlorobenzene	1.1	NC	NC	<0.0018		<0.0018		<0.0018	
Chlorodibromomethane	NC	NC	NC	<0.00092		<0.00090		<0.00091	
Chloroethane	NC	NC	NC	<0.018		<0.018		<0.018	
Chloroform	0.37	NC	NC	<0.0037		<0.0036		<0.0036	
Chloromethane	NC	NC	NC	<0.0092	L-04	<0.0090	L-04	<0.0091	L-04
Cyclohexane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
1,2-Dibromo-3-chloropropane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
1,2-Dibromoethane (EDB)	NC	NC	NC	<0.00092		<0.00090		<0.00091	
1,2-Dichlorobenzene	1.1	NC	NC	<0.0018		<0.0018		<0.0018	
1,3-Dichlorobenzene	2.4	NC	NC	<0.0018		<0.0018		<0.0018	
1,4-Dichlorobenzene	1.8	NC	NC	<0.0018		<0.0018		<0.0018	
Dichlorodifluoromethane (Freon 12)	NC	NC	NC	<0.018		<0.018		<0.018	
1,1-Dichloroethane	0.27	NC	NC	<0.0018		<0.0018		<0.0018	
1,2-Dichloroethane	0.02	NC	NC	<0.0018		<0.0018		<0.0018	
1,1-Dichloroethene	0.33	NC	NC	<0.0037		<0.0036		<0.0036	
cis-1,2-Dichloroethene	0.25	NC	NC	<0.0018		<0.0018		<0.0018	
trans-1,2-Dichloroethene	0.19	NC	NC	<0.0018		<0.0018		<0.0018	
1,2-Dichloropropane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
1,3-Dichloropropane	NC	NC	NC	<0.00092		<0.00090		<0.00091	
cis-1,3-Dichloropropene	NC	NC	NC	<0.00092		<0.00090		<0.00091	
trans-1,3-Dichloropropene	NC	NC	NC	<0.00092		<0.00090		<0.00091	
1,4-Dioxane	0.1	NC	NC	<0.092		<0.090		<0.091	
Ethyl Acetate	NC	NC	NC	<0.0018	L-04, V-05	<0.0018	L-04, V-05	<0.0018	L-04, V-05
Ethylbenzene	1	NC	1	<0.0018		<0.0018		<0.0018	
2-Hexanone (MBK)	NC	NC	NC	<0.018	V-05	<0.018	V-05	<0.018	V-05
Isopropylbenzene (Cumene)	NC	100	2.3	<0.0018		<0.0018		<0.0018	
p-Isopropyltoluene (p-Cymene)	NC	100	10	<0.0018		<0.0018		<0.0018	
Methyl acetate	NC	NC	NC	<0.0018		<0.0018		<0.0018	
Methyl tert-butyl ether (MTBE)	0.93	NC	0.93	<0.0037		<0.0036		<0.0036	
Methylcyclohexane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
Methylene chloride	0.05	NC	NC	<0.018		<0.018		<0.018	
4-Methyl-2-Pentanone	NC	NC	NC	<0.018	V-05	<0.018	V-05	<0.018	V-05
n-Propylbenzene	3.9	NC	3.9	<0.0018		<0.0018		<0.0018	
Styrene	NC	NC	NC	<0.0018		<0.0018		<0.0018	
1,1,2,2-Tetrachloroethane	NC	35	NC	<0.00092		<0.00090		<0.00091	
Tetrachloroethene	1.3	NC	NC	<0.0018		<0.0018		<0.0018	
Toluene	0.7	NC	0.7	<0.0018		<0.0018		<0.0018	
1,2,3-Trichlorobenzene	NC	NC	NC	<0.0018		<0.0018		<0.0018	
1,2,4-Trichlorobenzene	NC	NC	NC	<0.0018		<0.0018		<0.0018	
1,1,1-Trichloroethane	0.68	NC	NC	<0.0018		<0.0018		<0.0018	
1,1,2-Trichloroethane	NC	NC	NC	<0.0018		<0.0018		<0.0018	
Trichloroethene	0.47	NC	NC	<0.0018		<0.0018		<0.0018	
Trichlorofluoromethane (Freon 11)	NC	NC	NC	<0.0092		<0.0090		<0.0091	
1,2,3-Trichloropropane	NC	80	NC	<0.0037		<0.0036		<0.0036	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC	100	NC	<0.0092		<0.0090		<0.0091	
1,2,4-Trimethylbenzene	3.6	NC	3.6	<0.0018		<0.0018		<0.0018	
1,3,5-Trimethylbenzene	8.4	NC	8.4	<0.0018		<0.0018		<0.0018	
Vinyl chloride	0.02	NC	NC	<0.0092		<0.0090		<0.0091	
m/p-Xylene	NC(1)	NC	NC(2)	<0.0037		<0.0036		<0.0036	
o-Xylene	NC(1)	NC	NC(2)	<0.0018		<0.0018		<0.0018	
Xylenes (Total)	0.26	NC	0.26	<0.0055		<0.0054		<0.0054	
TENTATIVELY IDENTIFIED COMPOUNDS									
1,2,3,4-Tetrachlorobenzene	NC	NC	NC	ND		ND		ND	
2,4-Dichloroaniline	NC	NC	NC	ND		ND		ND	
2,6-Dinitrotoluene	NC	NC	NC	ND		ND		ND	
3,4-Dichloroaniline	NC	NC	NC	ND		ND		ND	
Chloroacetamide	NC	NC	NC	ND		ND		ND	
Methanol	NC	NC	NC	ND		ND		ND	
Pentachlorobenzene	NC	NC	NC	ND		ND		ND	

Notes:
mg/kg - milligrams per kilogram
< - Less than reporting limit
NC - No criterion
ND - Not detected
Q - Flag/qualifiers
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51
TICs - Tentatively Identified Compounds
Light gray shade with black bolded text values exceed SCL and/or Unrestricted Use SCOs
(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.
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.
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
Semi-Volatile Organic Compounds plus TICs
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME				**TRC-Composite-1**	
LAB SAMPLE ID				**16G0709-04**	
DILUTION FACTOR				**1**	
DATE SAMPLE COLLECTED				**7/15/2016**	
SEMI VOLATILE ORGANIC COMPOUNDS (SVOCs)	**Unrestricted Use SCO (mg/kg)**	**CP-51 Table 1 SCL - Residential (mg/kg)**	**CP-51 Table 2+3 SCL (mg/kg)**	**Result (mg/kg)**	**Q**
Acenaphthene	20	NC	20	0.11	J
Acenaphthylene	100	NC	100	<0.18	
Acetophenone	NC	NC	NC	<0.37	
Anthracene	100	NC	NC	0.23	
Aniline	NC	48	NC	<0.37	
Atrazine	NC	NC	NC	<0.72	
Benzaldehyde	NC	NC	NC	<0.37	V-20
Benzidine	NC	NC	NC	<0.71	V-04, V-05
Benzo(a)anthracene	1	NC	1	0.93	
Benzo(a)pyrene	1	NC	1	0.9	
Benzo(b)fluoranthene	1	NC	1	**1.1**	
Benzo(g,h,i)perylene	100	NC	100	0.56	
Benzo(k)fluoranthene	0.8	NC	0.8	0.42	
Biphenyl	NC	NC	NC	<0.72	
Benzoic Acid	NC	100	NC	<1.1	
Bis(2-chloroethoxy)methane	NC	NC	NC	<0.37	
Bis2-chloroethyl ether	NC	NC	NC	<0.37	
bis(2-ethylhexyl)phthalate	NC	50	NC	0.37	V-20
4-Bromophenylphenylether	NC	NC	NC	<0.37	
Butyl benzyl phthalate	NC	100	NC	0.74	
Caprolactam	NC	NC	NC	<0.37	
Carbazole	NC	NC	NC	0.096	J
4-Chloroaniline	NC	100	NC	<0.71	
4-Chloro-3-methylphenol	NC	NC	NC	<0.71	
2-Chloronaphthalene	NC	NC	NC	<0.37	
2-Chlorophenol	NC	100	NC	<0.37	
4-Chlorophenylphenylether	NC	NC	NC	<0.37	
Chrysene	1	NC	1	0.87	
Dibenz(a,h)anthracene	0.33	NC	0.33	0.13	J
Dibenzofuran	7	NC	NC	<0.37	
Di-n-butyl phthalate	NC	100	NC	<0.37	
3,3'-Dichlorobenzidine	NC	NC	NC	<0.18	
2,4-Dichlorophenol	NC	100	NC	<0.37	
Diethylphthalate	NC	100	NC	<0.37	
2,4-Dimethylphenol	NC	NC	NC	<0.37	
Dimethyl phthalate	NC	100	NC	<0.37	
4,6-Dinitro-2-methylphenol	NC	NC	NC	<0.37	
2,4-Dinitrophenol	NC	100	NC	<0.71	V-20
2,4-Dinitrotoluene	NC	NC	NC	<0.37	
2,6-Dinitrotoluene	NC	1.03	NC	<0.37	
Di-n-octyl phthalate	NC	100	NC	<0.37	V-20
1,2-Diphenylhydrazine (as Azobenzene)	NC	NC	NC	<0.37	
Fluoranthene	100	NC	100	1.9	
Fluorene	30	NC	30	0.11	J
Hexachlorobenzene	0.33	0.41	NC	<0.37	
Hexachlorobutadiene	NC	NC	NC	<0.37	
Hexachlorocyclopentadiene	NC	NC	NC	<0.37	V-05
Hexachloroethane	NC	NC	NC	<0.37	
Indeno(1,2,3-cd)pyrene	0.5	NC	0.5	**0.57**	
Isophorone	NC	100	NC	<0.37	
2-Methylnaphthalene	NC	0.41	NC	0.089	J
o-Cresol (2-Methylphenol)	0.33	NC	NC	<0.37	
3/4-Methylphenol	0.33	NC	NC	<0.37	
Naphthalene	12	NC	12	0.26	
2-Nitroaniline	NC	NC	NC	<0.37	
3-Nitroaniline	NC	NC	NC	<0.37	
4-Nitroaniline	NC	NC	NC	<0.37	
Nitrobenzene	NC	3.7	NC	<0.37	
2-Nitrophenol	NC	NC	NC	<0.37	
4-Nitrophenol	NC	NC	NC	<0.71	
N-Nitrosodimethylamine	NC	NC	NC	<0.37	V-20
N-Nitrosodiphenylamine	NC	NC	NC	<0.37	
N-Nitrosodi-n-propylamine	NC	NC	NC	<0.37	
Pentachloronitrobenzene	NC	NC	NC	<0.37	V-16
Pentachlorophenol	0.8	NC	NC	<0.37	
Phenanthrene	100	NC	100	0.99	
Phenol	0.33	NC	NC	<0.37	
Pyrene	100	NC	100	1.6	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	<0.37	
2,3,4,6-Tetrachlorophenol	NC	NC	NC	<0.72	
2,4,5-Trichlorophenol	NC	100	NC	<0.37	
2,4,6-Trichlorophenol	NC	NC	NC	<0.37	
TENTATIVELY IDENTIFIED COMPOUNDS					
1,2,3,6,7,8-Hexachlorodibenzofuran	NC	NC	NC	ND	
1,2,4,5-Tetrachlorobenzene	NC	NC	NC	ND	
1,2-Diphenylhydrazine	NC	NC	NC	ND	
2,2-bis(Hydroxyphenol)propane	NC	NC	NC	ND	
2,3,4,5-Tetrachlorophenol	NC	NC	NC	ND	
2,3,5,6-Tetrachloroaniline	NC	NC	NC	ND	
2,4,5-Trichloroaniline	NC	NC	NC	ND	
2,4,5-Trichlorophenol	NC	NC	NC	ND	
3,4-Dichlorophenol	NC	NC	NC	ND	
3-Chloroaniline	NC	NC	NC	ND	
3-Chlorophenol	NC	NC	NC	ND	
Benzo[e]pyrene	NC	NC	NC	0.87	
di-n-hexyl-Phthalate	NC	NC	NC	ND	
Pentachloroaniline	NC	NC	NC	ND	

Notes:
mg/kg - milligrams per kilogram
< - Less than reporting limi
NC - No criterion
ND - Compound not detected
J - Estimated Value
Q - Flag/qualifiers
SCO - Soil Cleanup Objective
SCL - Soil Cleanup Level for Gasoline Contaminated Soil based on NYSDEC Commissioner Policy CP-51
TICs - Tentatively Identified Compounds
Light gray shade with black bolded text values exceed SCL and/or Unrestricted Use SCOs
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-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 sampl 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 Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME		**TRC-Composite-1**	
LAB SAMPLE ID		**16G0709-04**	
DILUTION FACTOR		**1**	
DATE SAMPLE COLLECTED		**7/15/2016**	
METALS	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**	**Q**
Aluminum	NC	6,000	
Antimony	NC	<2.6	
Arsenic	13	4	
Barium	350	99	
Beryllium	7.2	<0.26	
Cadmium	2.5	0.43	
Calcium	NC	14,000	
Chromium (total)	30	15	
Chromium, hexavalent	1	<0.86	MS-16, W-06
Cobalt	NC	6.1	
Copper	50	47	
Cyanide, Total	27	<0.46	
Iron	NC	13,000	
Lead	63	**150**	
Magnesium	NC	3,000	
Manganese	1,600	240	
Mercury	0.18	**0.38**	MS-11
Nickel	30	15	
Potassium	NC	860	
Selenium	3.9	<5.3	
Silver	2	<0.53	
Sodium	NC	110	
Thallium	NC	2.5	J
Vanadium	NC	23	
Zinc	109	**150**	

Notes:
mg/kg - milligrams per kilogram
< - Less than reporting limit
NC - No criterion
J - Estimated Value
Q - Flag/qualifier
Light gray shade with black bolded text values exceed Unrestricted Use SCOs
W-06 - Elevated method reporting limit due to intense color of sample.
MS-11 - Matrix spike is outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

MS-16 - For solid method SW-846-7196A, matrix spike is outside of control limits.

Table 4
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Polychlorinated Biphenyls
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME **LAB SAMPLE ID** **DILUTION FACTOR** **DATE SAMPLE COLLECTED**		**TRC-Composite-1** **16G0709-04** **5** **7/15/2016**	
POLYCHLORINATED BIPHENYLS (PCBs)	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**	**Q**
Aroclor 1016	NC	<0.11	
Aroclor 1221	NC	<0.11	
Aroclor 1232	NC	<0.11	
Aroclor 1242	NC	<0.11	
Aroclor 1248	NC	<0.11	
Aroclor 1254	NC	0.15	O-04, P-01
Aroclor 1260	NC	0.086	J
Aroclor 1262	NC	<0.11	
Aroclor 1268	NC	<0.11	
Total PCBs	0.1	**0.236**	

Notes:
mg/kg - milligrams per kilogram
< - Less than reporting limit
NC - No criterion
O-04 - Sample fingerprint does not match sample exactly. Sample was quantified against the closest matching standard.
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.
Q - Qualifier
*Unrestricted Use SCO for total PCBs is 0.1 mg/kg
Light gray shade with black bolded text values exceed Unrestricted Use SCO

Table 5
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Pesticides and Herbicides
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME		**TRC-Composite-1**	
LAB SAMPLE ID		**16G0709-04**	
DILUTION FACTOR		**1**	
DATE SAMPLE COLLECTED		**7/15/2016**	
PESTICIDES AND HERBICIDES	**Unrestricted Use SCO (mg/kg)**	**Result (mg/kg)**	**Q**
alpha-Chlordane	0.094	<0.0054	
gamma-Chlordane	NC	<0.0054	
Alachlor	NC	<0.022	
Aldrin	0.005	<0.0054	
alpha-BHC	0.02	<0.0054	
beta-BHC	0.036	<0.0054	
delta-BHC	0.04	<0.0054	
gamma-BHC (Lindane)	0.1	<0.0022	
Chlordane	0.094	**0.2**	P-01
4,4'-DDD	0.0033	**0.011**	
4,4'-DDE	0.0033	**0.0087**	
4,4'-DDT	0.0033	**0.015**	
Dieldrin	0.005	0.0048	
Endosulfan I	2.4	<0.0054	
Endosulfan II	2.4	<0.0086	
Endosulfan Sulfate	2.4	<0.0086	
Endrin	0.014	<0.0086	
Endrin aldehyde	NC	<0.0086	
Endrin ketone	NC	<0.0086	
Heptachlor	0.042	<0.0054	
Heptachlor epoxide	NC	0.0031	J
Hexachlorobenzene	0.33	<0.0065	
Methoxychlor	NC	<0.054	
Toxaphene	NC	<0.11	
2,4-D	NC	<0.027	
2,4-DB	NC	<0.027	
2,4,5-TP (Silvex)	NC	<0.0027	
2,4,5-T	NC	<0.0027	
Dalapon	NC	<0.067	
Dicamba	NC	<0.0027	
Dichloroprop	NC	<0.027	
Dinoseb	NC	<0.013	
MCPA	NC	<2.7	
MCPP	NC	<2.7	

Notes:
mg/kg - milligrams per kilogram
< - Less than reporting limit
NC - No criterion
J - Estimated Value
Light gray shade with black bolded text values exceed Unrestricted Use SCOs
Q- Flag/qualifier
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.

Table 6
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Toxicity Characteristic Leaching Procedure Metals
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME **LAB SAMPLE ID** **DILUTION FACTOR** **DATE SAMPLE COLLECTED**		**TRC-Composite-1** **16G0709-04** **1** **7/15/2016**
Toxicity Characteristic Leaching Procedure (TCLP) - Metals	**Toxicity Level (mg/L)**	**Results (mg/L)**
Arsenic	5	<0.010
Mercury	0.2	<0.00010
Barium	100	0.33
Cadmium	1	0.006
Chromium	5	<0.010
Lead	5	0.16
Selenium	1	<0.050
Silver	5	<0.0050

Notes:
mg/L - milligrams per liter
NA - Not analyzed

Table 7
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for
Total Petroleum Hydrocarbons
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME	**TRC-TP-1-Grab**		**TRC-TP-2-Grab**		**TRC-TP-3-Grab**	
LAB SAMPLE ID	**16G0709-01**		**16G0709-02**		**16G0709-03**	
DILUTION FACTOR	**1**		**1**		**1**	
DATE SAMPLE COLLECTED	**7/15/2016**		**7/15/2016**		**7/15/2016**	
PARAMETERS	**Result (mg/kg)**		**Result (mg/kg)**		**Result (mg/kg)**	
Gasoline Range Organics (GRO)	<1.1		<1.2		<1.1	
Diesel Range Organics (DRO)	54		260		230	

Notes:
mg/kg - milligrams per kilogram
< - Less than reporting limit

Table 8
New York City School Construction Authority
Summary of Soil Sampling Analytical Results for Generic Waste Characterization Parameters
Proposed Pre-Kindergarten Facility
5-14 49th Avenue
Queens, New York

SAMPLE NAME	**TRC-Composite-1**	
LAB SAMPLE ID	**16G0709-04**	
DILUTION FACTOR	**1**	
DATE SAMPLE COLLECTED	**7/15/2016**	
PARAMETERS	**Result (mg/kg)**	
Ignitability	Absent	
Reactive Cyanide	<4.0	
Reactive Sulfide	<20	
pH (pH units)	7.2	

Notes:
mg/kg - milligrams per kilogram
< - Less than detection limit
J - Estimated Value

APPENDIX A

PHOTOGRAPH LOG

Appendix A
Test Pit Photograph Log

Test Pit 1 (TP-1): Final depth at 41" below ground surface (bgs) and exposed brick foundation.

Test Pit 1 (TP-1): Excavated soil contents.

Test Pit 2 (TP-2): Final depth at 42" bgs.

Test Pit 2 (TP-2): Excavated soil contents.

TRC Job No.	Photographs Taken By:	Page No.	Client:	Site Name & Address:
260992	Jenna Raup	1 of 2	NYCSCA	5-14 49th Avenue Queens, NY

Appendix A
Test Pit Photograph Log

Test Pit 3 (TP-3): Final depth at 24" bgs.

Test Pit 3 (TP-3): Excavated soil contents.

View of area of test pit excavations.

View of nearby automobile repair facility at 49-03 5th Street facing southwest. Note exhaust (air emissions discharge from spray booth) on roof

APPENDIX B

TEST PIT LOGS

TRC	TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**TEST PIT LOG**	**TEST PIT: TP- 1** **SHEET: 1 OF 1**

JOB NAME/ CLIENT	**PROJECT NO.**
Proposed Pre-K Facility	260992

ADDRESS	**INSPECTOR**
5-14 49th Avenue, Long Island City, NY 11101	Jenna Raup

START DATE	**END DATE**	**WATER LEVEL (if applicalble)**
7/15/2016	7/15/2016	N/A

DEPTH (INCHES)	**DESCRIPTION OF SOILS** (SAA = Same As Above) f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little	**REMARKS** (PID, STAINING, ODORS, ETC.) FP = Free Product N/S = No Staining, N/O = No odors SO = Slight Odor, MO = Moderate Odor STO = Strong Odor
	0-41": Brown m-c SAND, some f-c gravel, some red brick, some concrete fragments (fill), dry	PID: 0.0 ppm, N/S, N/O TRC-TP-1-Grab TRC-Composite-1 (composited with soils from TP-1, TP-2, and TP-3)
6		
12		
18		
24		
30		
36	Final depth at 41" bgs	
42		

TRC	TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**TEST PIT LOG**	**TEST PIT: TP- 2** **SHEET: 1 OF 1**

JOB NAME/ CLIENT	**PROJECT NO.**
Proposed Pre-K Facility	260992

ADDRESS	**INSPECTOR**
5-14 49th Avenue, Long Island City, NY 11101	Jenna Raup

START DATE	**END DATE**	**WATER LEVEL (if applicalble)**
7/15/2016	7/15/2016	N/A

DEPTH (INCHES)	**DESCRIPTION OF SOILS** (SAA = Same As Above) f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little	**REMARKS** (PID, STAINING, ODORS, ETC.) FP = Free Product N/S = No Staining, N/O = No odors SO = Slight Odor, MO = Moderate Odor STO = Strong Odor
6 12 18 24	0-24": Brown m-c SAND, some f-c gravel, some red brick, some concrete fragments (fill), dry	PID: 0.0 ppm, N/S, N/O TRC-TP-2-Grab TRC-Composite-1 (composited with soils from TP-1, TP-2, and TP-3)
30 36 42	24"-42": Dk brown m-c SAND, some f-c gravel, some red brick (fill), dry Final depth at 42" bgs	PID: 0.0 ppm, N/S, N/O

TRC	TRC Engineers, Inc. 1430 Broadway, 10th Floor New York, New York 10018 Phone 212 221 7822	**TEST PIT LOG**	**TEST PIT: TP- 3** **SHEET: 1 OF 1**

JOB NAME/ CLIENT	**PROJECT NO.**
Proposed Pre-K Facility	260992

ADDRESS	**INSPECTOR**
5-14 49th Avenue, Long Island City, NY 11101	Jenna Raup

START DATE	**END DATE**	**WATER LEVEL (if applicalble)**
7/15/2016	7/15/2016	N/A

DEPTH (INCHES)	**DESCRIPTION OF SOILS** (SAA = Same As Above) f - fine m - medium c - coarse lt - light dk - dark tr - trace ltl - little	**REMARKS** (PID, STAINING, ODORS, ETC.) FP = Free Product N/S = No Staining, N/O = No odors SO = Slight Odor, MO = Moderate Odor STO = Strong Odor
	0-24": Brown m-c SAND, some f-c gravel, some red brick & concrete, glass fragments (fill), dry	PID: 0.0 ppm, N/S, N/O TRC-TP-3-Grab TRC-Composite-1 (composited with soils from TP-1, TP-2, and TP-3)
6		
12		
18		
24	TRC observed to 24" bgs.*	

*TRC did not observe the terminal depth of the test pit.

APPENDIX C

LABORATORY ANALYTICAL DATA REPORT

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

July 25, 2016

Jenna Raup
TRC Engineers, Inc.
1430 Broadway 10th Floor
New York, NY 10018

Project Location: 5-14 49th Ave., Long Island City, NY
Client Job Number:
Project Number: 260992
Laboratory Work Order Number: 16G0709

Enclosed are results of analyses for samples received by the laboratory on July 16, 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: Jenna Raup

REPORT DATE: 7/25/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 260992

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16G0709

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

PROJECT LOCATION: 5-14 49th Ave., Long Island City, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-TP-1-Grab	16G0709-01	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8260C	
TRC-TP-2-Grab	16G0709-02	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8260C	
TRC-TP-3-Grab	16G0709-03	Soil		SM 2540G	
				SW-846 8015C	
				SW-846 8260C	
TRC-Composite-1	16G0709-04	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.

REVISED REPORT - 7/25/2016 - Project location revised per clients request.

For method 8151, samples were derivatized on 07/19/16.

For method 8151, sample analysis bracketed by LCS to monitor esterification. All recoveries in the bracketing LCS met method criteria.

con-test® ANALYTICAL LABORATORY

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

SW-846 7196A

Qualifications:

MS-16

For solid method SW846-7196A, the matrix spike is outside of control limits. pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.

Analyte & Samples(s) Qualified:

Hexavalent Chromium

16G0709-04[TRC-Composite-1], B153913-MS1, B153913-MS3, B153913-MSD1

W-06

Elevated method reporting limit due to intense color of sample

Analyte & Samples(s) Qualified:

Hexavalent Chromium

16G0709-04[TRC-Composite-1]

SW-846 7471B

Qualifications:

MS-11

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Mercury

16G0709-04[TRC-Composite-1], B153868-MS1

SW-846 8015C

Qualifications:

PR-03

Sample preserved in the laboratory, not in the field as required by the method.

Analyte & Samples(s) Qualified:

16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab]

SW-846 8081B

Qualifications:

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:

Chlordane [2C]

16G0709-04[TRC-Composite-1]

SW-846 8082A

Qualifications:

O-04

Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

Analyte & Samples(s) Qualified:

Aroclor-1254

16G0709-04[TRC-Composite-1]

Aroclor-1254 [2C]

16G0709-04[TRC-Composite-1]

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:

Aroclor-1254 [2C]

16G0709-04[TRC-Composite-1]

SW-846 8260C

Qualifications:

con-test® ANALYTICAL LABORATORY

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

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:

Chloromethane
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

Ethyl Acetate
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-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:

2-Butanone (MEK)
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

2-Hexanone (MBK)
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

4-Methyl-2-pentanone (MIBK)
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

Acetone
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

Ethyl Acetate
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

tert-Butyl Alcohol (TBA)
16G0709-01[TRC-TP-1-Grab], 16G0709-02[TRC-TP-2-Grab], 16G0709-03[TRC-TP-3-Grab], B153920-BLK1, B153920-BS1, B153920-BSD1

SW-846 8270D

Qualifications:

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
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-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
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

Hexachlorocyclopentadiene
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

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
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-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:

2,4-Dinitrophenol
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

Benzaldehyde
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

Bis(2-Ethylhexyl)phthalate
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

Di-n-octylphthalate
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

N-Nitrosodimethylamine
16G0709-04[TRC-Composite-1], B153912-BLK1, B153912-BS1, B153912-BSD1

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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.

Meghan E. Kelley
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-1-Grab Sampled: 7/15/2016 18:45

Sample ID: 16G0709-01

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	0.092	0.021	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Acrylonitrile	ND	0.0055	0.0023	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Benzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Bromodichloromethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Bromomethane	ND	0.0092	0.0016	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
2-Butanone (MEK)	ND	0.037	0.016	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
tert-Butyl Alcohol (TBA)	ND	0.037	0.019	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
n-Butylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
sec-Butylbenzene	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
tert-Butylbenzene	ND	0.0018	0.00083	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Carbon Disulfide	ND	0.0055	0.0032	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Carbon Tetrachloride	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Chlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Chlorodibromomethane	ND	0.00092	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Chloroethane	ND	0.018	0.0014	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Chloroform	ND	0.0037	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Chloromethane	ND	0.0092	0.00083	mg/Kg dry	1	L-04	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Cyclohexane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2-Dibromoethane (EDB)	ND	0.00092	0.00092	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,1-Dichloroethane	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,1-Dichloroethylene	ND	0.0037	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00083	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,3-Dichloropropane	ND	0.00092	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
cis-1,3-Dichloropropene	ND	0.00092	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
trans-1,3-Dichloropropene	ND	0.00092	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,4-Dioxane	ND	0.092	0.053	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Ethyl Acetate	ND	0.0018	0.00046	mg/Kg dry	1	L-04, V-05	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Ethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
2-Hexanone (MBK)	ND	0.018	0.010	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Methyl Acetate	ND	0.0018	0.0015	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0037	0.00083	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Methyl Cyclohexane	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-1-Grab Sampled: 7/15/2016 18:45

Sample ID: 16G0709-01

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	0.018	0.0065	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0070	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 9:33	MFF
n-Propylbenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Styrene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.00092	0.00083	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Tetrachloroethylene	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Toluene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Trichloroethylene	ND	0.0018	0.00092	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0092	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2,3-Trichloropropane	ND	0.0037	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0092	0.00083	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Vinyl Chloride	ND	0.0092	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
m+p Xylene	ND	0.0037	0.0016	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Xylenes (total)	ND	0.0055		mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.5	70-130		7/18/16 9:33
Toluene-d8	97.7	70-130		7/18/16 9:33
4-Bromofluorobenzene	95.0	70-130		7/18/16 9:33

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-1-Grab Sampled: 7/15/2016 18:45

Sample ID: 16G0709-01

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	7/18/16	7/18/16 9:33	MFF
2,4-Dichloroaniline	0.0	mg/Kg dry			1	554-00-7		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
2,6-Dinitrotoluene	0.0	mg/Kg dry			1	606-20-2		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
3,4-Dichloroaniline	0.0	mg/Kg dry			1	95-76-1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Chloroacetamide	0.0	mg/Kg dry			1	79-07-2		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Methanol	0.0	mg/Kg dry			1	67-56-1		SW-846 8260C	7/18/16	7/18/16 9:33	MFF
Pentachlorobenzene	0.0	mg/Kg dry			1	608-93-5		SW-846 8260C	7/18/16	7/18/16 9:33	MFF

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-1-Grab Sampled: 7/15/2016 18:45

Sample ID: 16G0709-01

Sample Matrix: Soil

Sample Flags: PR-03

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.1	1.1	mg/Kg dry	1		SW-846 8015C	7/18/16	7/18/16 17:26	EEH
Diesel Range Organics	54	44	9.8	mg/Kg dry	5		SW-846 8015C	7/16/16	7/18/16 20:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	92.4	70-130		7/18/16 17:26
o-Terphenyl	81.2	40-140		7/18/16 20:47

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-1-Grab Sampled: 7/15/2016 18:45

Sample ID: 16G0709-01

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	94.0			% Wt	1		SM 2540G	7/18/16	7/19/16 9:15	MRL

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-2-Grab Sampled: 7/15/2016 18:50

Sample ID: 16G0709-02

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	0.090	0.021	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Acrylonitrile	ND	0.0054	0.0022	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Benzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Bromodichloromethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Bromomethane	ND	0.0090	0.0015	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
2-Butanone (MEK)	ND	0.036	0.016	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
tert-Butyl Alcohol (TBA)	ND	0.036	0.019	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
n-Butylbenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
sec-Butylbenzene	ND	0.0018	0.00090	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
tert-Butylbenzene	ND	0.0018	0.00081	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Carbon Disulfide	ND	0.0054	0.0031	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Carbon Tetrachloride	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Chlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Chlorodibromomethane	ND	0.00090	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Chloroform	ND	0.0036	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Chloromethane	ND	0.0090	0.00081	mg/Kg dry	1	L-04	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Cyclohexane	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.00099	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2-Dibromoethane (EDB)	ND	0.00090	0.00090	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,1-Dichloroethane	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,1-Dichloroethylene	ND	0.0036	0.00099	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00081	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,3-Dichloropropane	ND	0.00090	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
cis-1,3-Dichloropropene	ND	0.00090	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
trans-1,3-Dichloropropene	ND	0.00090	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,4-Dioxane	ND	0.090	0.052	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Ethyl Acetate	ND	0.0018	0.00045	mg/Kg dry	1	L-04, V-05	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Ethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
2-Hexanone (MBK)	ND	0.018	0.0098	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Methyl Acetate	ND	0.0018	0.0014	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00081	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Methyl Cyclohexane	ND	0.0018	0.00090	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-2-Grab Sampled: 7/15/2016 18:50

Sample ID: 16G0709-02

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	0.018	0.0064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0068	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:01	MFF
n-Propylbenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Styrene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.00090	0.00081	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Tetrachloroethylene	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Toluene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00090	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Trichloroethylene	ND	0.0018	0.00090	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0090	0.00099	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2,3-Trichloropropane	ND	0.0036	0.00099	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0090	0.00081	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Vinyl Chloride	ND	0.0090	0.00099	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
o-Xylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Xylenes (total)	ND	0.0054		mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.6	70-130		7/18/16 10:01
Toluene-d8	97.4	70-130		7/18/16 10:01
4-Bromofluorobenzene	96.5	70-130		7/18/16 10:01

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-2-Grab Sampled: 7/15/2016 18:50

Sample ID: 16G0709-02

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	7/18/16	7/18/16 10:01	MFF
2,4-Dichloroaniline	0.0	mg/Kg dry			1	554-00-7		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
2,6-Dinitrotoluene	0.0	mg/Kg dry			1	606-20-2		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
3,4-Dichloroaniline	0.0	mg/Kg dry			1	95-76-1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Chloroacetamide	0.0	mg/Kg dry			1	79-07-2		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Methanol	0.0	mg/Kg dry			1	67-56-1		SW-846 8260C	7/18/16	7/18/16 10:01	MFF
Pentachlorobenzene	0.0	mg/Kg dry			1	608-93-5		SW-846 8260C	7/18/16	7/18/16 10:01	MFF

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-2-Grab Sampled: 7/15/2016 18:50

Sample ID: 16G0709-02

Sample Matrix: Soil

Sample Flags: PR-03

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	7/18/16	7/18/16 18:03	EEH
Diesel Range Organics	260	46	10	mg/Kg dry	5		SW-846 8015C	7/16/16	7/18/16 21:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	95.2	70-130		7/18/16 18:03
o-Terphenyl	79.2	40-140		7/18/16 21:05

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-2-Grab Sampled: 7/15/2016 18:50

Sample ID: 16G0709-02

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	91.1			% Wt	1		SM 2540G	7/18/16	7/19/16 9:15	MRL

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-3-Grab Sampled: 7/15/2016 20:10

Sample ID: 16G0709-03

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	0.091	0.021	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Acrylonitrile	ND	0.0054	0.0023	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Benzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Bromodichloromethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Bromomethane	ND	0.0091	0.0015	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
2-Butanone (MEK)	ND	0.036	0.016	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
tert-Butyl Alcohol (TBA)	ND	0.036	0.019	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
n-Butylbenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
sec-Butylbenzene	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
tert-Butylbenzene	ND	0.0018	0.00082	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Carbon Disulfide	ND	0.0054	0.0032	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Carbon Tetrachloride	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Chlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Chlorodibromomethane	ND	0.00091	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Chloroethane	ND	0.018	0.0014	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Chloroform	ND	0.0036	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Chloromethane	ND	0.0091	0.00082	mg/Kg dry	1	L-04	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Cyclohexane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00091	0.00091	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,1-Dichloroethane	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,1-Dichloroethylene	ND	0.0036	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00082	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,3-Dichloropropane	ND	0.00091	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
cis-1,3-Dichloropropene	ND	0.00091	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
trans-1,3-Dichloropropene	ND	0.00091	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,4-Dioxane	ND	0.091	0.052	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Ethyl Acetate	ND	0.0018	0.00045	mg/Kg dry	1	L-04, V-05	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Ethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
2-Hexanone (MBK)	ND	0.018	0.0099	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Methyl Acetate	ND	0.0018	0.0015	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00082	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Methyl Cyclohexane	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-3-Grab Sampled: 7/15/2016 20:10

Sample ID: 16G0709-03

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	0.018	0.0064	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0069	mg/Kg dry	1	V-05	SW-846 8260C	7/18/16	7/18/16 10:28	MFF
n-Propylbenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Styrene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00091	0.00082	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Tetrachloroethylene	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Toluene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,1,1-Trichloroethane	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Trichloroethylene	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0091	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2,3-Trichloropropane	ND	0.0036	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0091	0.00082	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,2,4-Trimethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
1,3,5-Trimethylbenzene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Vinyl Chloride	ND	0.0091	0.0010	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
o-Xylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Xylenes (total)	ND	0.0054		mg/Kg dry	1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.4	70-130		7/18/16 10:28
Toluene-d8	98.9	70-130		7/18/16 10:28
4-Bromofluorobenzene	96.4	70-130		7/18/16 10:28

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-3-Grab Sampled: 7/15/2016 20:10

Sample ID: 16G0709-03

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	7/18/16	7/18/16 10:28	MFF
2,4-Dichloroaniline	0.0	mg/Kg dry			1	554-00-7		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
2,6-Dinitrotoluene	0.0	mg/Kg dry			1	606-20-2		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
3,4-Dichloroaniline	0.0	mg/Kg dry			1	95-76-1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Chloroacetamide	0.0	mg/Kg dry			1	79-07-2		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Methanol	0.0	mg/Kg dry			1	67-56-1		SW-846 8260C	7/18/16	7/18/16 10:28	MFF
Pentachlorobenzene	0.0	mg/Kg dry			1	608-93-5		SW-846 8260C	7/18/16	7/18/16 10:28	MFF

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-3-Grab Sampled: 7/15/2016 20:10

Sample ID: 16G0709-03

Sample Matrix: Soil

Sample Flags: PR-03

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Gasoline Range Organics (GRO)	ND	1.1	1.1	mg/Kg dry	1		SW-846 8015C	7/18/16	7/19/16 6:43	EEH
Diesel Range Organics	230	45	10	mg/Kg dry	5		SW-846 8015C	7/16/16	7/18/16 21:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1-Chloro-3-fluorobenzene	90.1	70-130		7/19/16 6:43
o-Terphenyl	75.6	40-140		7/18/16 21:23

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-TP-3-Grab Sampled: 7/15/2016 20:10

Sample ID: 16G0709-03

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	91.9			% Wt	1		SM 2540G	7/18/16	7/19/16 9:15	MRL

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

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	0.72	0.37	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Atrazine	ND	0.72	0.61	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzaldehyde	ND	0.37	0.35	mg/Kg dry	1	V-20	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Biphenyl	ND	0.72	0.46	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Caprolactam	ND	0.37	0.28	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Acenaphthene	0.11	0.18	0.055	mg/Kg dry	1	J	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Acenaphthylene	ND	0.18	0.061	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Acetophenone	ND	0.37	0.072	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Aniline	ND	0.37	0.10	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Anthracene	0.23	0.18	0.053	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzidine	ND	0.71	0.46	mg/Kg dry	1	V-04, V-05	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzo(a)anthracene	0.93	0.18	0.048	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzo(a)pyrene	0.90	0.18	0.057	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzo(b)fluoranthene	1.1	0.18	0.052	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzo(g,h,i)perylene	0.56	0.18	0.081	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzo(k)fluoranthene	0.42	0.18	0.057	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzoic Acid	ND	1.1	0.19	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Bis(2-chloroethoxy)methane	ND	0.37	0.070	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Bis(2-chloroethyl)ether	ND	0.37	0.072	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Bis(2-Ethylhexyl)phthalate	0.37	0.37	0.14	mg/Kg dry	1	V-20	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4-Bromophenylphenylether	ND	0.37	0.061	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Butylbenzylphthalate	0.74	0.37	0.087	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Carbazole	0.096	0.18	0.047	mg/Kg dry	1	J	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4-Chloroaniline	ND	0.71	0.084	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4-Chloro-3-methylphenol	ND	0.71	0.079	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2-Chloronaphthalene	ND	0.37	0.069	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2-Chlorophenol	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4-Chlorophenylphenylether	ND	0.37	0.061	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Chrysene	0.87	0.18	0.057	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Dibenz(a,h)anthracene	0.13	0.18	0.11	mg/Kg dry	1	J	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Dibenzofuran	ND	0.37	0.064	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Di-n-butylphthalate	ND	0.37	0.080	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
3,3-Dichlorobenzidine	ND	0.18	0.056	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4-Dichlorophenol	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Diethylphthalate	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4-Dimethylphenol	ND	0.37	0.068	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Dimethylphthalate	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4,6-Dinitro-2-methylphenol	ND	0.37	0.35	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4-Dinitrophenol	ND	0.71	0.21	mg/Kg dry	1	V-20	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4-Dinitrotoluene	ND	0.37	0.059	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,6-Dinitrotoluene	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Di-n-octylphthalate	ND	0.37	0.19	mg/Kg dry	1	V-20	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	0.059	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Fluoranthene	1.9	0.18	0.060	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Fluorene	0.11	0.18	0.059	mg/Kg dry	1	J	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Hexachlorobenzene	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Hexachlorobutadiene	ND	0.37	0.065	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Hexachlorocyclopentadiene	ND	0.37	0.078	mg/Kg dry	1	V-05	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Hexachloroethane	ND	0.37	0.073	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Indeno(1,2,3-cd)pyrene	0.57	0.18	0.13	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Isophorone	ND	0.37	0.071	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2-Methylnaphthalene	0.089	0.18	0.064	mg/Kg dry	1	J	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2-Methylphenol	ND	0.37	0.091	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
3/4-Methylphenol	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Naphthalene	0.26	0.18	0.094	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2-Nitroaniline	ND	0.37	0.061	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
3-Nitroaniline	ND	0.37	0.053	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4-Nitroaniline	ND	0.37	0.061	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Nitrobenzene	ND	0.37	0.069	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2-Nitrophenol	ND	0.37	0.097	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
4-Nitrophenol	ND	0.71	0.080	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
N-Nitrosodimethylamine	ND	0.37	0.23	mg/Kg dry	1	V-20	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
N-Nitrosodiphenylamine	ND	0.37	0.075	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
N-Nitrosodi-n-propylamine	ND	0.37	0.075	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Pentachloronitrobenzene	ND	0.37	0.087	mg/Kg dry	1	V-16	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Pentachlorophenol	ND	0.37	0.088	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Phenanthrene	0.99	0.18	0.095	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Phenol	ND	0.37	0.062	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Pyrene	1.6	0.18	0.060	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.37	0.066	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4,5-Trichlorophenol	ND	0.37	0.083	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4,6-Trichlorophenol	ND	0.37	0.061	mg/Kg dry	1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	71.6	15-110		7/19/16 14:43
Phenol-d6	72.3	15-110		7/19/16 14:43
Nitrobenzene-d5	80.8	30-130		7/19/16 14:43
2-Fluorobiphenyl	71.4	30-130		7/19/16 14:43
2,4,6-Tribromophenol	55.3	15-110		7/19/16 14:43
p-Terphenyl-d14	72.9	30-130		7/19/16 14:43

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1,2,3,6,7,8-Hexachlorodibenzofuran	0.0	mg/Kg dry			1	57117-44-9		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
1,2,4,5-Tetrachlorobenzene	0.0	mg/Kg dry			1	95-94-3		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
1,2-Diphenylhydrazine	0.0	mg/Kg dry			1	122-66-7		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,2-bis(Hydroxyphenol)propane	0.0	mg/Kg dry			1	80-05-7		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,3,4,5-Tetrachlorophenol	0.0	mg/Kg dry			1	4901-51-3		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,3,5,6-tetrachloroaniline	0.0	mg/Kg dry			1	002324-98-3		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4,5-Trichloroaniline	0.0	mg/Kg dry			1	636-30-6		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
2,4,5-Trichlorophenol	0.0	mg/Kg dry			1	95-95-4		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
3,4-Dichlorophenol	0.0	mg/Kg dry			1	95-77-2		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
3-Chloroaniline	0.0	mg/Kg dry			1	108-42-9		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
3-Chlorophenol	0.0	mg/Kg dry			1	108-43-0		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
Benzo[e]pyrene	0.87	mg/Kg dry	312606	9.586	1	000192-97-2	97	SW-846 8270D	7/18/16	7/19/16 14:43	BGL
di-n-hexyl-phthalate	0.0	mg/Kg dry			1	111530-37-1		SW-846 8270D	7/18/16	7/19/16 14:43	BGL
pentachloroaniline	0.0	mg/Kg dry			1	000135-48-8		SW-846 8270D	7/18/16	7/19/16 14:43	BGL

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
alpha-Chlordane [1]	ND	0.0054	0.00030	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
gamma-Chlordane [1]	ND	0.0054	0.00030	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Alachlor [1]	ND	0.022	0.0012	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Aldrin [1]	ND	0.0054	0.00032	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
alpha-BHC [1]	ND	0.0054	0.00043	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
beta-BHC [1]	ND	0.0054	0.00054	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
delta-BHC [1]	ND	0.0054	0.00043	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
gamma-BHC (Lindane) [1]	ND	0.0022	0.00054	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Chlordane [2]	0.20	0.022	0.0062	mg/Kg dry	1	P-01	SW-846 8081B	7/16/16	7/19/16 12:30	JMB
4,4'-DDD [2]	0.011	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
4,4'-DDE [1]	0.0087	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
4,4'-DDT [2]	0.015	0.0043	0.00043	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Dieldrin [1]	0.0048	0.0043	0.00032	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Endosulfan I [1]	ND	0.0054	0.00043	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Endosulfan II [1]	ND	0.0086	0.00032	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Endosulfan sulfate [1]	ND	0.0086	0.0014	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Endrin [1]	ND	0.0086	0.00032	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Endrin aldehyde [1]	ND	0.0086	0.0013	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Endrin ketone [1]	ND	0.0086	0.00043	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Heptachlor [1]	ND	0.0054	0.00054	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Heptachlor epoxide [1]	0.0031	0.0054	0.00043	mg/Kg dry	1	J	SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Hexachlorobenzene [1]	ND	0.0065	0.00075	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Methoxychlor [1]	ND	0.054	0.00065	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB
Toxaphene [1]	ND	0.11	0.046	mg/Kg dry	1		SW-846 8081B	7/16/16	7/19/16 12:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		7/19/16 12:30
Decachlorobiphenyl [2]	105	30-150		7/19/16 12:30
Tetrachloro-m-xylene [1]	72.6	30-150		7/19/16 12:30
Tetrachloro-m-xylene [2]	69.0	30-150		7/19/16 12:30

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Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

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	0.065	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1221 [1]	ND	0.11	0.070	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1232 [1]	ND	0.11	0.048	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1242 [1]	ND	0.11	0.054	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1248 [1]	ND	0.11	0.065	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1254 [2]	0.15	0.11	0.070	mg/Kg dry	5	O-04, P-01	SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1260 [2]	0.086	0.11	0.075	mg/Kg dry	5	J	SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1262 [1]	ND	0.11	0.054	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL
Aroclor-1268 [1]	ND	0.11	0.043	mg/Kg dry	5		SW-846 8082A	7/16/16	7/18/16 19:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.0	30-150		7/18/16 19:53
Decachlorobiphenyl [2]	88.8	30-150		7/18/16 19:53
Tetrachloro-m-xylene [1]	95.2	30-150		7/18/16 19:53
Tetrachloro-m-xylene [2]	93.2	30-150		7/18/16 19:53

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

Herbicides by GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D [1]	ND	27	2.3	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
2,4-DB [1]	ND	27	5.4	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
2,4,5-TP (Silvex) [1]	ND	2.7	0.29	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
2,4,5-T [1]	ND	2.7	0.36	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
Dalalpon [1]	ND	67	4.0	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
Dicamba [1]	ND	2.7	0.37	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
Dichloroprop [1]	ND	27	5.1	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
Dinoseb [1]	ND	13	0.56	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
MCPA [1]	ND	2700	410	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB
MCPP [1]	ND	2700	360	µg/kg dry	1		SW-846 8151A	7/18/16	7/20/16 1:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2,4-Dichlorophenylacetic acid [1]	98.2	30-150		7/20/16 1:07
2,4-Dichlorophenylacetic acid [2]	102	30-150		7/20/16 1:07

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aluminum	6000	2.6	2.2	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Antimony	ND	2.6	1.7	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Arsenic	4.0	2.6	0.49	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Barium	99	2.6	0.82	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Beryllium	ND	0.26	0.21	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Cadmium	0.43	0.26	0.14	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Calcium	14000	7.9	4.7	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Chromium	15	0.53	0.34	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Cobalt	6.1	2.6	0.81	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Copper	47	0.53	0.19	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Iron	13000	2.6	1.4	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Lead	150	0.79	0.22	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Magnesium	3000	7.9	4.0	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Manganese	240	0.53	0.37	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Mercury	0.38	0.026	0.0076	mg/Kg dry	1	MS-11	SW-846 7471B	7/18/16	7/19/16 11:25	SCB
Nickel	15	0.53	0.15	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Potassium	860	110	65	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Selenium	ND	5.3	1.2	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Silver	ND	0.53	0.42	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Sodium	110	110	60	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Thallium	2.5	2.6	1.7	mg/Kg dry	1	J	SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Vanadium	23	1.1	0.31	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK
Zinc	150	1.1	0.87	mg/Kg dry	1		SW-846 6010C-D	7/18/16	7/18/16 20:08	JK

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

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
Cyanide	ND	0.46	0.22	mg/Kg dry	1		SW-846 9014	7/18/16	7/19/16 11:00	VAK
Hexavalent Chromium	ND	0.86	0.65	mg/Kg dry	5	MS-16, W-06	SW-846 7196A	7/18/16	7/19/16 11:30	LL
Ignitability	Absent			present/absent	1		SW-846 1030	7/19/16	7/19/16 11:15	AG
pH @22.2°C	7.2			pH Units	1		SW-846 9045C	7/16/16	7/16/16 13:10	AMM
Reactive Cyanide	ND	4.0	4.0	mg/Kg	1		SW-846 9014	7/19/16	7/19/16 17:30	DJM
Reactive Sulfide	ND	20	20	mg/Kg	1		SW-846 9030A	7/19/16	7/19/16 16:50	DJM
% Solids	92.9			% Wt	1		SM 2540G	7/16/16	7/16/16 14:48	JW

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

Project Location: 5-14 49th Ave., Long Island City, Sample Description: Work Order: 16G0709

Date Received: 7/16/2016

Field Sample #: TRC-Composite-1 Sampled: 7/15/2016 20:15

Sample ID: 16G0709-04

Sample Matrix: Soil

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	7/18/16	7/19/16 19:12	JK
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/18/16	7/18/16 17:09	SCB
Barium	0.33	0.050	mg/L	1		SW-846 6010C-D	7/18/16	7/19/16 19:12	JK
Cadmium	0.0060	0.0040	mg/L	1		SW-846 6010C-D	7/18/16	7/19/16 19:12	JK
Chromium	ND	0.010	mg/L	1		SW-846 6010C-D	7/18/16	7/19/16 19:12	JK
Lead	0.16	0.010	mg/L	1		SW-846 6010C-D	7/18/16	7/19/16 19:12	JK
Selenium	ND	0.050	mg/L	1		SW-846 6010C-D	7/18/16	7/19/16 19:12	JK
Silver	ND	0.0050	mg/L	1		SW-846 6010C-D	7/18/16	7/19/16 19:12	JK

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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
16G0709-04 [TRC-Composite-1]	B153804	07/16/16

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16G0709-01 [TRC-TP-1-Grab]	B153830	07/18/16
16G0709-02 [TRC-TP-2-Grab]	B153830	07/18/16
16G0709-03 [TRC-TP-3-Grab]	B153830	07/18/16

SW-846 1030

Lab Number [Field ID]	Batch	Initial [g]	Date
16G0709-04 [TRC-Composite-1]	B153963	50.0	07/19/16

Prep Method: SW-846 3051-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153845	1.02	50.0	07/18/16

Prep Method: SW-846 3010A-SW-846 6010C-D **Leachates were extracted on 7/16/2016 per SW-846 1311 in Batch B153805**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153859	50.0	50.0	07/18/16

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153913	2.50	100	07/18/16

Prep Method: SW-846 7470A Prep-SW-846 7470A **Leachates were extracted on 7/16/2016 per SW-846 1311 in Batch B153805**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153832	6.00	6.00	07/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153868	0.613	50.0	07/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-01 [TRC-TP-1-Grab]	B153811	30.2	1.00	07/16/16
16G0709-02 [TRC-TP-2-Grab]	B153811	30.0	1.00	07/16/16
16G0709-03 [TRC-TP-3-Grab]	B153811	30.1	1.00	07/16/16

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-01 [TRC-TP-1-Grab]	B153927	15.0	15.9	07/18/16
16G0709-02 [TRC-TP-2-Grab]	B153927	15.6	16.4	07/18/16
16G0709-03 [TRC-TP-3-Grab]	B153927	15.5	16.3	07/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153808	10.0	10.0	07/16/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153807	10.0	10.0	07/16/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153833	20.1	5.00	07/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-01 [TRC-TP-1-Grab]	B153920	5.80	10.0	07/18/16
16G0709-02 [TRC-TP-2-Grab]	B153920	6.10	10.0	07/18/16
16G0709-03 [TRC-TP-3-Grab]	B153920	6.00	10.0	07/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153912	30.0	1.00	07/18/16

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153960	1.16	50.0	07/18/16

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153973	25.0	250	07/19/16

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Sample Extraction Data

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16G0709-04 [TRC-Composite-1]	B153974	25.0	250	07/19/16

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
16G0709-04 [TRC-Composite-1]	B153810	20.0	07/16/16

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

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 B153920 - SW-846 5035										
Blank (B153920-BLK1)				Prepared & Analyzed: 07/18/16						
Acetone	ND	0.10	mg/Kg wet							V-05
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							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							V-05
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-05
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							
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							L-04
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							
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							V-05, L-04
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							V-05
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							V-05
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 B153920 - SW-846 5035												
Blank (B153920-BLK1)				Prepared & Analyzed: 07/18/16								
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	0.0040	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	*0.0475*		mg/Kg wet	0.0500		95.0		70-130				
Surrogate: Toluene-d8	*0.0485*		mg/Kg wet	0.0500		97.1		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0478*		mg/Kg wet	0.0500		95.7		70-130				
LCS (B153920-BS1)				Prepared & Analyzed: 07/18/16								
Acetone	0.153	0.10	mg/Kg wet	0.200		76.4		70-160			V-05	†
Acrylonitrile	0.0161	0.0060	mg/Kg wet	0.0200		80.4		70-130				
Benzene	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130				
Bromochloromethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130				
Bromodichloromethane	0.0175	0.0020	mg/Kg wet	0.0200		87.6		70-130				
Bromoform	0.0176	0.0020	mg/Kg wet	0.0200		87.8		70-130				
Bromomethane	0.0129	0.010	mg/Kg wet	0.0200		64.7		40-130				†
2-Butanone (MEK)	0.152	0.040	mg/Kg wet	0.200		76.1		70-160			V-05	†
tert-Butyl Alcohol (TBA)	0.0896	0.040	mg/Kg wet	0.200		44.8		40-130			V-05	†
n-Butylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
sec-Butylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130				
tert-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7		70-160				†
Carbon Disulfide	0.0179	0.0060	mg/Kg wet	0.0200		89.7		70-130				
Carbon Tetrachloride	0.0166	0.0020	mg/Kg wet	0.0200		82.8		70-130				
Chlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6		70-130				
Chlorodibromomethane	0.0183	0.0010	mg/Kg wet	0.0200		91.6		70-130				
Chloroethane	0.0159	0.020	mg/Kg wet	0.0200		79.4		70-130			J	
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.7		70-130				
Chloromethane	0.0124	0.010	mg/Kg wet	0.0200		**61.9**	*	70-130			L-04	
Cyclohexane	0.0184	0.0020	mg/Kg wet	0.0200		91.9		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0164	0.0020	mg/Kg wet	0.0200		82.2		70-130				
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.5		70-130				
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130				
1,3-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.8		70-130				
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130				
Dichlorodifluoromethane (Freon 12)	0.0138	0.020	mg/Kg wet	0.0200		69.1		40-160			J	†
1,1-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130				
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130				
1,1-Dichloroethylene	0.0172	0.0040	mg/Kg wet	0.0200		86.0		70-130				
cis-1,2-Dichloroethylene	0.0165	0.0020	mg/Kg wet	0.0200		82.5		70-130				
trans-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.7		70-130				
1,2-Dichloropropane	0.0173	0.0020	mg/Kg wet	0.0200		86.5		70-130				
1,3-Dichloropropane	0.0171	0.0010	mg/Kg wet	0.0200		85.4		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 B153920 - SW-846 5035												
LCS (B153920-BS1)				Prepared & Analyzed: 07/18/16								
cis-1,3-Dichloropropene	0.0161	0.0010	mg/Kg wet	0.0200		80.7		70-130				
trans-1,3-Dichloropropene	0.0161	0.0010	mg/Kg wet	0.0200		80.5		70-130				
1,4-Dioxane	0.172	0.10	mg/Kg wet	0.200		86.0		40-160				†
Ethyl Acetate	0.0133	0.0020	mg/Kg wet	0.0200		**66.4**	*	70-130			V-05, L-04	
Ethylbenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5		70-130				
2-Hexanone (MBK)	0.160	0.020	mg/Kg wet	0.200		80.0		70-160			V-05	†
Isopropylbenzene (Cumene)	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130				
p-Isopropyltoluene (p-Cymene)	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130				
Methyl Acetate	0.0149	0.0020	mg/Kg wet	0.0200		74.3		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0166	0.0040	mg/Kg wet	0.0200		82.8		70-130				
Methyl Cyclohexane	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130				
Methylene Chloride	0.0154	0.020	mg/Kg wet	0.0200		76.8		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.155	0.020	mg/Kg wet	0.200		77.4		70-160			V-05	†
n-Propylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130				
Styrene	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130				
1,1,2,2-Tetrachloroethane	0.0182	0.0010	mg/Kg wet	0.0200		90.8		70-130				
Tetrachloroethylene	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130				
Toluene	0.0182	0.0020	mg/Kg wet	0.0200		91.2		70-130				
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130				
1,2,4-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.7		70-130				
1,1,1-Trichloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130				
1,1,2-Trichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-130				
Trichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130				
Trichlorofluoromethane (Freon 11)	0.0216	0.010	mg/Kg wet	0.0200		108		70-130				
1,2,3-Trichloropropane	0.0178	0.0040	mg/Kg wet	0.0200		89.1		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0201	0.010	mg/Kg wet	0.0200		100		70-130				
1,2,4-Trimethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8		70-130				
1,3,5-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130				
Vinyl Chloride	0.0138	0.010	mg/Kg wet	0.0200		69.0		40-130				†
m+p Xylene	0.0374	0.0040	mg/Kg wet	0.0400		93.4		70-130				
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.0		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0483*		mg/Kg wet	0.0500		96.5		70-130				
Surrogate: Toluene-d8	*0.0480*		mg/Kg wet	0.0500		96.0		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/Kg wet	0.0500		100		70-130				
LCS Dup (B153920-BSD1)				Prepared & Analyzed: 07/18/16								
Acetone	0.162	0.10	mg/Kg wet	0.200		80.9		70-160	5.71	25	V-05	†
Acrylonitrile	0.0158	0.0060	mg/Kg wet	0.0200		78.9		70-130	1.88	25		
Benzene	0.0178	0.0020	mg/Kg wet	0.0200		89.2		70-130	0.670	25		
Bromochloromethane	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130	2.60	25		
Bromodichloromethane	0.0174	0.0020	mg/Kg wet	0.0200		86.9		70-130	0.802	25		
Bromoform	0.0175	0.0020	mg/Kg wet	0.0200		87.5		70-130	0.342	25		
Bromomethane	0.0126	0.010	mg/Kg wet	0.0200		63.0		40-130	2.66	25		†
2-Butanone (MEK)	0.156	0.040	mg/Kg wet	0.200		77.9		70-160	2.38	25	V-05	†
tert-Butyl Alcohol (TBA)	0.0870	0.040	mg/Kg wet	0.200		43.5		40-130	3.01	25	V-05	†
n-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	0.595	25		
sec-Butylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130	1.38	25		
tert-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-160	0.656	25		†
Carbon Disulfide	0.0167	0.0060	mg/Kg wet	0.0200		83.5		70-130	7.16	25		
Carbon Tetrachloride	0.0163	0.0020	mg/Kg wet	0.0200		81.3		70-130	1.83	25		
Chlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	0.707	25		
Chlorodibromomethane	0.0184	0.0010	mg/Kg wet	0.0200		91.8		70-130	0.218	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 B153920 - SW-846 5035												
LCS Dup (B153920-BSD1)				Prepared & Analyzed: 07/18/16								
Chloroethane	0.0164	0.020	mg/Kg wet	0.0200		81.8		70-130	2.98	25	J	
Chloroform	0.0166	0.0040	mg/Kg wet	0.0200		83.2		70-130	6.40	25		
Chloromethane	0.0116	0.010	mg/Kg wet	0.0200		**57.9**	*	70-130	6.68	25	L-04	
Cyclohexane	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130	0.655	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0167	0.0020	mg/Kg wet	0.0200		83.4		70-130	1.45	25		
1,2-Dibromoethane (EDB)	0.0193	0.0010	mg/Kg wet	0.0200		96.6		70-130	0.104	25		
1,2-Dichlorobenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130	5.05	25		
1,3-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130	0.718	25		
1,4-Dichlorobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130	1.25	25		
Dichlorodifluoromethane (Freon 12)	0.0133	0.020	mg/Kg wet	0.0200		66.4		40-160	3.99	25	J	†
1,1-Dichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.2		70-130	2.94	25		
1,2-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8		70-130	0.00	25		
1,1-Dichloroethylene	0.0171	0.0040	mg/Kg wet	0.0200		85.4		70-130	0.700	25		
cis-1,2-Dichloroethylene	0.0160	0.0020	mg/Kg wet	0.0200		80.2		70-130	2.83	25		
trans-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6		70-130	2.42	25		
1,2-Dichloropropane	0.0179	0.0020	mg/Kg wet	0.0200		89.5		70-130	3.41	25		
1,3-Dichloropropane	0.0177	0.0010	mg/Kg wet	0.0200		88.4		70-130	3.45	25		
cis-1,3-Dichloropropene	0.0157	0.0010	mg/Kg wet	0.0200		78.4		70-130	2.89	25		
trans-1,3-Dichloropropene	0.0156	0.0010	mg/Kg wet	0.0200		78.0		70-130	3.15	25		
1,4-Dioxane	0.193	0.10	mg/Kg wet	0.200		96.4		40-160	11.5	50		† ‡
Ethyl Acetate	0.0128	0.0020	mg/Kg wet	0.0200		**64.1**	*	70-130	3.52	25	V-05, L-04	
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130	0.432	25		
2-Hexanone (MBK)	0.158	0.020	mg/Kg wet	0.200		79.2		70-160	0.942	25	V-05	†
Isopropylbenzene (Cumene)	0.0239	0.0020	mg/Kg wet	0.0200		120		70-130	2.45	25		
p-Isopropyltoluene (p-Cymene)	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130	0.751	25		
Methyl Acetate	0.0147	0.0020	mg/Kg wet	0.0200		73.3		70-130	1.36	25		
Methyl tert-Butyl Ether (MTBE)	0.0160	0.0040	mg/Kg wet	0.0200		79.8		70-130	3.69	25		
Methyl Cyclohexane	0.0185	0.0020	mg/Kg wet	0.0200		92.3		70-130	3.30	25		
Methylene Chloride	0.0152	0.020	mg/Kg wet	0.0200		75.9		40-160	1.18	25	J	†
4-Methyl-2-pentanone (MIBK)	0.156	0.020	mg/Kg wet	0.200		77.8		70-160	0.451	25	V-05	†
n-Propylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130	2.62	25		
Styrene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	1.98	25		
1,1,2,2-Tetrachloroethane	0.0185	0.0010	mg/Kg wet	0.0200		92.7		70-130	2.07	25		
Tetrachloroethylene	0.0190	0.0020	mg/Kg wet	0.0200		95.2		70-130	0.210	25		
Toluene	0.0177	0.0020	mg/Kg wet	0.0200		88.3		70-130	3.23	25		
1,2,3-Trichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4		70-130	0.991	25		
1,2,4-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		86.1		70-130	0.694	25		
1,1,1-Trichloroethane	0.0165	0.0020	mg/Kg wet	0.0200		82.5		70-130	2.16	25		
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.5		70-130	0.640	25		
Trichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130	3.23	25		
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103		70-130	4.36	25		
1,2,3-Trichloropropane	0.0180	0.0040	mg/Kg wet	0.0200		90.2		70-130	1.23	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0196	0.010	mg/Kg wet	0.0200		97.9		70-130	2.62	25		
1,2,4-Trimethylbenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130	2.11	25		
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	1.60	25		
Vinyl Chloride	0.0135	0.010	mg/Kg wet	0.0200		67.5		40-130	2.20	25		†
m+p Xylene	0.0375	0.0040	mg/Kg wet	0.0400		93.8		70-130	0.374	25		
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130	4.26	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0490*		mg/Kg wet	0.0500		98.0		70-130				
Surrogate: Toluene-d8	*0.0494*		mg/Kg wet	0.0500		98.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0508*		mg/Kg wet	0.0500		102		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 B153920 - SW-846 5035										
Blank (B153920-BLK1)				Prepared & Analyzed: 07/18/16						
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 B153912 - SW-846 3546										
Blank (B153912-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16						
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	0.13	0.34	mg/Kg wet							J, V-20
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							
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							
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							V-20
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							V-20
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							V-05
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 B153912 - SW-846 3546										
Blank (B153912-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16						
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							
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							
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							
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	*4.70*		mg/Kg wet	6.67		70.5	15-110			
Surrogate: Phenol-d6	*4.90*		mg/Kg wet	6.67		73.5	15-110			
Surrogate: Nitrobenzene-d5	*2.78*		mg/Kg wet	3.33		83.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.60*		mg/Kg wet	3.33		78.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*4.09*		mg/Kg wet	6.67		61.3	15-110			
Surrogate: p-Terphenyl-d14	*3.63*		mg/Kg wet	3.33		109	30-130			
LCS (B153912-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16						
2,3,4,6-Tetrachlorophenol	1.14	0.67	mg/Kg wet	1.67		68.6	40-140			
Atrazine	1.24	0.67	mg/Kg wet	1.67		74.2	40-140			
Benzaldehyde	0.716	0.34	mg/Kg wet	1.67		42.9	40-140			V-20
Biphenyl	1.20	0.67	mg/Kg wet	1.67		71.9	40-140			
Caprolactam	1.13	0.34	mg/Kg wet	1.67		67.6	40-140			
N-Nitrosodiethylamine	ND	0.33	mg/Kg wet				40-140			
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Acetophenone	1.10	0.34	mg/Kg wet	1.67		66.3	40-140			
Aniline	0.945	0.34	mg/Kg wet	1.67		56.7	40-140			
Anthracene	1.15	0.17	mg/Kg wet	1.67		68.8	40-140			
Benzidine	0.981	0.66	mg/Kg wet	1.67		58.8	40-140			V-04, V-05
Benzo(a)anthracene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Benzo(g,h,i)perylene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Benzoic Acid	1.12	1.0	mg/Kg wet	1.67		67.2	10-130			†
Bis(2-chloroethoxy)methane	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
Bis(2-chloroethyl)ether	1.37	0.34	mg/Kg wet	1.67		82.2	40-140			
Bis(2-Ethylhexyl)phthalate	1.74	0.34	mg/Kg wet	1.67		105	40-140			V-20
4-Bromophenylphenylether	1.25	0.34	mg/Kg wet	1.67		74.8	40-140			
Butylbenzylphthalate	1.61	0.34	mg/Kg wet	1.67		96.3	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 B153912 - SW-846 3546											
LCS (B153912-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Carbazole	1.08	0.17	mg/Kg wet	1.67		64.6	40-140				
4-Chloroaniline	0.846	0.66	mg/Kg wet	1.67		50.8	40-140				
4-Chloro-3-methylphenol	1.19	0.66	mg/Kg wet	1.67		71.2	30-130				
2-Chloronaphthalene	1.10	0.34	mg/Kg wet	1.67		66.0	40-140				
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.0	30-130				
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.3	40-140				
Chrysene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140				
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140				
Dibenzofuran	1.21	0.34	mg/Kg wet	1.67		72.8	40-140				
Di-n-butylphthalate	1.36	0.34	mg/Kg wet	1.67		81.8	40-140				
3,3-Dichlorobenzidine	0.965	0.17	mg/Kg wet	1.67		57.9	40-140				
2,4-Dichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.5	30-130				
Diethylphthalate	1.27	0.34	mg/Kg wet	1.67		75.9	40-140				
2,4-Dimethylphenol	1.11	0.34	mg/Kg wet	1.67		66.6	30-130				
Dimethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.2	40-140				
4,6-Dinitro-2-methylphenol	0.948	0.34	mg/Kg wet	1.67		56.9	30-130				
2,4-Dinitrophenol	0.837	0.66	mg/Kg wet	1.67		50.2	30-130			V-20	
2,4-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		70.1	40-140				
2,6-Dinitrotoluene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140				
Di-n-octylphthalate	1.61	0.34	mg/Kg wet	1.67		96.5	40-140			V-20	
1,2-Diphenylhydrazine (as Azobenzene)	1.43	0.34	mg/Kg wet	1.67		85.9	40-140				
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140				
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140				
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.6	40-140				
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.6	40-140				
Hexachlorocyclopentadiene	0.789	0.34	mg/Kg wet	1.67		47.4	30-140			V-05	†
Hexachloroethane	1.16	0.34	mg/Kg wet	1.67		69.3	40-140				
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140				
Isophorone	1.30	0.34	mg/Kg wet	1.67		78.2	40-140				
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140				
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.7	30-130				
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.8	30-130				
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140				
2-Nitroaniline	1.37	0.34	mg/Kg wet	1.67		81.9	40-140				
3-Nitroaniline	1.05	0.34	mg/Kg wet	1.67		62.7	40-140				
4-Nitroaniline	0.995	0.34	mg/Kg wet	1.67		59.7	40-140				
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.7	40-140				
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		66.0	30-130				
4-Nitrophenol	1.21	0.66	mg/Kg wet	1.67		72.4	10-130				†
N-Nitrosodimethylamine	1.44	0.34	mg/Kg wet	1.67		86.5	40-140			V-20	
N-Nitrosodiphenylamine	1.48	0.34	mg/Kg wet	1.67		88.6	40-140				
N-Nitrosodi-n-propylamine	1.26	0.34	mg/Kg wet	1.67		75.7	40-140				
Pentachloronitrobenzene	1.02	0.34	mg/Kg wet	1.67		61.2	40-140			V-16	
Pentachlorophenol	0.821	0.34	mg/Kg wet	1.67		49.3	30-130				
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140				
Phenol	1.28	0.34	mg/Kg wet	1.67		76.8	20-130				†
Pyrene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140				
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.4	40-140				
2,4,5-Trichlorophenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130				
2,4,6-Trichlorophenol	1.15	0.34	mg/Kg wet	1.67		69.0	30-130				
Surrogate: 2-Fluorophenol	*5.24*		mg/Kg wet	6.67		78.6	15-110				
Surrogate: Phenol-d6	*5.37*		mg/Kg wet	6.67		80.6	15-110				

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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 B153912 - SW-846 3546											
LCS (B153912-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Surrogate: Nitrobenzene-d5	*2.79*		mg/Kg wet	3.33		83.8	30-130				
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*3.85*		mg/Kg wet	6.67		57.7	15-110				
Surrogate: p-Terphenyl-d14	*2.90*		mg/Kg wet	3.33		87.1	30-130				
LCS Dup (B153912-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16							
2,3,4,6-Tetrachlorophenol	1.20	0.67	mg/Kg wet	1.67		72.2	40-140	5.08	20		
Atrazine	1.30	0.67	mg/Kg wet	1.67		78.1	40-140	5.10	20		
Benzaldehyde	0.691	0.34	mg/Kg wet	1.67		41.4	40-140	3.56	20	V-20	
Biphenyl	1.26	0.67	mg/Kg wet	1.67		75.4	40-140	4.78	20		
Caprolactam	1.17	0.34	mg/Kg wet	1.67		70.0	40-140	3.55	20		
N-Nitrosodiethylamine	ND	0.33	mg/Kg wet				40-140	NC	20		
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140	5.69	20		
Acenaphthylene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	4.00	20		
Acetophenone	1.18	0.34	mg/Kg wet	1.67		71.1	40-140	7.02	20		
Aniline	0.926	0.34	mg/Kg wet	1.67		55.6	40-140	2.03	50		‡
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	5.27	20		
Benzidine	0.986	0.66	mg/Kg wet	1.67		59.2	40-140	0.576	20	V-04, V-05	
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	5.72	20		
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.8	40-140	7.85	20		
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140	3.76	20		
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	6.84	20		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140	6.29	20		
Benzoic Acid	1.15	1.0	mg/Kg wet	1.67		69.1	10-130	2.85	50		† ‡
Bis(2-chloroethoxy)methane	1.34	0.34	mg/Kg wet	1.67		80.2	40-140	5.99	20		
Bis(2-chloroethyl)ether	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	5.50	20		
Bis(2-Ethylhexyl)phthalate	1.73	0.34	mg/Kg wet	1.67		104	40-140	0.902	20	V-20	
4-Bromophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.7	40-140	1.28	20		
Butylbenzylphthalate	1.67	0.34	mg/Kg wet	1.67		100	40-140	3.83	20		
Carbazole	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	5.60	20		
4-Chloroaniline	0.915	0.66	mg/Kg wet	1.67		54.9	40-140	7.87	20		
4-Chloro-3-methylphenol	1.26	0.66	mg/Kg wet	1.67		75.6	30-130	5.97	20		
2-Chloronaphthalene	1.16	0.34	mg/Kg wet	1.67		69.4	40-140	4.99	20		
2-Chlorophenol	1.19	0.34	mg/Kg wet	1.67		71.1	30-130	10.5	20		
4-Chlorophenylphenylether	1.26	0.34	mg/Kg wet	1.67		75.7	40-140	3.27	20		
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	3.48	20		
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.5	40-140	3.97	20		
Dibenzofuran	1.27	0.34	mg/Kg wet	1.67		75.9	40-140	4.25	20		
Di-n-butylphthalate	1.38	0.34	mg/Kg wet	1.67		82.7	40-140	1.14	20		
3,3-Dichlorobenzidine	1.04	0.17	mg/Kg wet	1.67		62.1	40-140	7.07	20		
2,4-Dichlorophenol	1.13	0.34	mg/Kg wet	1.67		67.9	30-130	8.25	20		
Diethylphthalate	1.31	0.34	mg/Kg wet	1.67		78.3	40-140	3.09	20		
2,4-Dimethylphenol	1.18	0.34	mg/Kg wet	1.67		71.0	30-130	6.37	20		
Dimethylphthalate	1.28	0.34	mg/Kg wet	1.67		77.1	40-140	3.75	50		‡
4,6-Dinitro-2-methylphenol	1.03	0.34	mg/Kg wet	1.67		61.5	30-130	7.87	50		‡
2,4-Dinitrophenol	0.827	0.66	mg/Kg wet	1.67		49.6	30-130	1.28	50	V-20	‡
2,4-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.1	40-140	4.22	20		
2,6-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.67		76.3	40-140	5.99	20		
Di-n-octylphthalate	1.63	0.34	mg/Kg wet	1.67		97.7	40-140	1.22	20	V-20	
1,2-Diphenylhydrazine (as Azobenzene)	1.53	0.34	mg/Kg wet	1.67		91.7	40-140	6.55	20		
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	6.17	20		
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	4.78	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 B153912 - SW-846 3546											
LCS Dup (B153912-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Hexachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140	4.35	20		
Hexachlorobutadiene	1.24	0.34	mg/Kg wet	1.67		74.3	40-140	5.16	20		
Hexachlorocyclopentadiene	0.794	0.34	mg/Kg wet	1.67		47.7	30-140	0.631	50	V-05	† ‡
Hexachloroethane	1.26	0.34	mg/Kg wet	1.67		75.7	40-140	8.83	50		‡
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	8.12	50		‡
Isophorone	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	6.39	20		
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	4.67	20		
2-Methylphenol	1.18	0.34	mg/Kg wet	1.67		70.5	30-130	7.07	20		
3/4-Methylphenol	1.16	0.34	mg/Kg wet	1.67		69.3	30-130	6.77	20		
Naphthalene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	3.77	20		
2-Nitroaniline	1.41	0.34	mg/Kg wet	1.67		84.5	40-140	3.08	20		
3-Nitroaniline	1.12	0.34	mg/Kg wet	1.67		67.0	40-140	6.63	20		
4-Nitroaniline	1.03	0.34	mg/Kg wet	1.67		61.9	40-140	3.52	20		
Nitrobenzene	1.35	0.34	mg/Kg wet	1.67		80.9	40-140	4.11	20		
2-Nitrophenol	1.22	0.34	mg/Kg wet	1.67		73.0	30-130	10.1	20		
4-Nitrophenol	1.25	0.66	mg/Kg wet	1.67		75.3	10-130	3.93	50		† ‡
N-Nitrosodimethylamine	1.59	0.34	mg/Kg wet	1.67		95.3	40-140	9.59	20	V-20	
N-Nitrosodiphenylamine	1.50	0.34	mg/Kg wet	1.67		90.3	40-140	1.90	20		
N-Nitrosodi-n-propylamine	1.40	0.34	mg/Kg wet	1.67		83.9	40-140	10.2	20		
Pentachloronitrobenzene	1.04	0.34	mg/Kg wet	1.67		62.5	40-140	2.01	20	V-16	
Pentachlorophenol	0.863	0.34	mg/Kg wet	1.67		51.8	30-130	4.95	50		‡
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	6.17	20		
Phenol	1.27	0.34	mg/Kg wet	1.67		76.4	20-130	0.548	20		†
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	7.04	20		
1,2,4,5-Tetrachlorobenzene	1.13	0.34	mg/Kg wet	1.67		67.8	40-140	3.57	20		
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.3	30-130	4.68	20		
2,4,6-Trichlorophenol	1.17	0.34	mg/Kg wet	1.67		70.4	30-130	2.04	50		‡
Surrogate: 2-Fluorophenol	*4.99*		mg/Kg wet	6.67		74.9	15-110				
Surrogate: Phenol-d6	*5.24*		mg/Kg wet	6.67		78.6	15-110				
Surrogate: Nitrobenzene-d5	*2.90*		mg/Kg wet	3.33		87.0	30-130				
Surrogate: 2-Fluorobiphenyl	*2.72*		mg/Kg wet	3.33		81.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*4.01*		mg/Kg wet	6.67		60.1	15-110				
Surrogate: p-Terphenyl-d14	*3.04*		mg/Kg wet	3.33		91.1	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 B153912 - SW-846 3546										
Blank (B153912-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16						
No TICs Found	0.0		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 B153808 - SW-846 3546										
Blank (B153808-BLK1)				Prepared: 07/16/16 Analyzed: 07/19/16						
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	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.157*		mg/Kg wet	0.200		78.6	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 B153808 - SW-846 3546										
LCS (B153808-BS1)				Prepared: 07/16/16 Analyzed: 07/19/16						
alpha-Chlordane	0.095	0.0050	mg/Kg wet	0.100		95.1	40-140			
alpha-Chlordane [2C]	0.096	0.0050	mg/Kg wet	0.100		96.1	40-140			
gamma-Chlordane	0.094	0.0050	mg/Kg wet	0.100		94.3	40-140			
gamma-Chlordane [2C]	0.099	0.0050	mg/Kg wet	0.100		99.4	40-140			
Alachlor	0.082	0.020	mg/Kg wet	0.100		81.6	40-140			
Alachlor [2C]	0.085	0.020	mg/Kg wet	0.100		85.3	40-140			
Aldrin	0.094	0.0050	mg/Kg wet	0.100		94.5	40-140			
Aldrin [2C]	0.094	0.0050	mg/Kg wet	0.100		94.4	40-140			
alpha-BHC	0.091	0.0050	mg/Kg wet	0.100		91.1	40-140			
alpha-BHC [2C]	0.090	0.0050	mg/Kg wet	0.100		90.3	40-140			
beta-BHC	0.087	0.0050	mg/Kg wet	0.100		87.0	40-140			
beta-BHC [2C]	0.085	0.0050	mg/Kg wet	0.100		85.3	40-140			
delta-BHC	0.086	0.0050	mg/Kg wet	0.100		86.4	40-140			
delta-BHC [2C]	0.086	0.0050	mg/Kg wet	0.100		85.7	40-140			
gamma-BHC (Lindane)	0.097	0.0020	mg/Kg wet	0.100		96.6	40-140			
gamma-BHC (Lindane) [2C]	0.095	0.0020	mg/Kg wet	0.100		95.2	40-140			
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDD [2C]	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		103	40-140			
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		101	40-140			
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		104	40-140			
4,4'-DDT [2C]	0.10	0.0040	mg/Kg wet	0.100		102	40-140			
Dieldrin	0.097	0.0040	mg/Kg wet	0.100		96.8	40-140			
Dieldrin [2C]	0.095	0.0040	mg/Kg wet	0.100		95.4	40-140			
Endosulfan I	0.092	0.0050	mg/Kg wet	0.100		91.6	40-140			
Endosulfan I [2C]	0.093	0.0050	mg/Kg wet	0.100		93.5	40-140			
Endosulfan II	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140			
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		88.3	40-140			
Endosulfan Sulfate	0.089	0.0080	mg/Kg wet	0.100		89.2	40-140			
Endosulfan Sulfate [2C]	0.088	0.0080	mg/Kg wet	0.100		88.4	40-140			
Endrin	0.10	0.0080	mg/Kg wet	0.100		100	40-140			
Endrin [2C]	0.099	0.0080	mg/Kg wet	0.100		98.7	40-140			
Endrin Aldehyde	0.057	0.0080	mg/Kg wet	0.100		56.6	40-140			
Endrin Aldehyde [2C]	0.057	0.0080	mg/Kg wet	0.100		57.3	40-140			
Endrin Ketone	0.099	0.0080	mg/Kg wet	0.100		98.7	40-140			
Endrin Ketone [2C]	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140			
Heptachlor	0.091	0.0050	mg/Kg wet	0.100		91.2	40-140			
Heptachlor [2C]	0.093	0.0050	mg/Kg wet	0.100		93.2	40-140			
Heptachlor Epoxide	0.092	0.0050	mg/Kg wet	0.100		92.1	40-140			
Heptachlor Epoxide [2C]	0.092	0.0050	mg/Kg wet	0.100		92.1	40-140			
Hexachlorobenzene	0.085	0.0060	mg/Kg wet	0.100		85.3	40-140			
Hexachlorobenzene [2C]	0.089	0.0060	mg/Kg wet	0.100		88.8	40-140			
Methoxychlor	0.10	0.050	mg/Kg wet	0.100		101	40-140			
Methoxychlor [2C]	0.10	0.050	mg/Kg wet	0.100		101	40-140			
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.7	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 B153808 - SW-846 3546										
LCS Dup (B153808-BSD1)				Prepared: 07/16/16 Analyzed: 07/19/16						
alpha-Chlordane	0.094	0.0050	mg/Kg wet	0.100		93.5	40-140	1.68	30	
alpha-Chlordane [2C]	0.095	0.0050	mg/Kg wet	0.100		95.4	40-140	0.791	30	
gamma-Chlordane	0.092	0.0050	mg/Kg wet	0.100		92.2	40-140	2.21	30	
gamma-Chlordane [2C]	0.098	0.0050	mg/Kg wet	0.100		97.9	40-140	1.50	30	
Alachlor	0.084	0.020	mg/Kg wet	0.100		84.0	40-140	2.87	30	
Alachlor [2C]	0.089	0.020	mg/Kg wet	0.100		88.6	40-140	3.83	30	
Aldrin	0.093	0.0050	mg/Kg wet	0.100		93.5	40-140	1.05	30	
Aldrin [2C]	0.095	0.0050	mg/Kg wet	0.100		94.7	40-140	0.246	30	
alpha-BHC	0.089	0.0050	mg/Kg wet	0.100		88.6	40-140	2.86	30	
alpha-BHC [2C]	0.090	0.0050	mg/Kg wet	0.100		89.6	40-140	0.777	30	
beta-BHC	0.085	0.0050	mg/Kg wet	0.100		84.9	40-140	2.54	30	
beta-BHC [2C]	0.085	0.0050	mg/Kg wet	0.100		85.0	40-140	0.364	30	
delta-BHC	0.072	0.0050	mg/Kg wet	0.100		72.0	40-140	18.2	30	
delta-BHC [2C]	0.074	0.0050	mg/Kg wet	0.100		74.5	40-140	14.0	30	
gamma-BHC (Lindane)	0.094	0.0020	mg/Kg wet	0.100		93.8	40-140	2.95	30	
gamma-BHC (Lindane) [2C]	0.093	0.0020	mg/Kg wet	0.100		93.4	40-140	1.92	30	
4,4'-DDD	0.10	0.0040	mg/Kg wet	0.100		101	40-140	2.03	30	
4,4'-DDD [2C]	0.099	0.0040	mg/Kg wet	0.100		99.0	40-140	1.79	30	
4,4'-DDE	0.10	0.0040	mg/Kg wet	0.100		101	40-140	1.36	30	
4,4'-DDE [2C]	0.10	0.0040	mg/Kg wet	0.100		100	40-140	0.817	30	
4,4'-DDT	0.10	0.0040	mg/Kg wet	0.100		102	40-140	1.82	30	
4,4'-DDT [2C]	0.10	0.0040	mg/Kg wet	0.100		99.9	40-140	2.00	30	
Dieldrin	0.096	0.0040	mg/Kg wet	0.100		95.7	40-140	1.17	30	
Dieldrin [2C]	0.095	0.0040	mg/Kg wet	0.100		94.7	40-140	0.726	30	
Endosulfan I	0.091	0.0050	mg/Kg wet	0.100		90.6	40-140	1.12	30	
Endosulfan I [2C]	0.092	0.0050	mg/Kg wet	0.100		92.4	40-140	1.19	30	
Endosulfan II	0.087	0.0080	mg/Kg wet	0.100		87.4	40-140	0.902	30	
Endosulfan II [2C]	0.088	0.0080	mg/Kg wet	0.100		87.8	40-140	0.638	30	
Endosulfan Sulfate	0.088	0.0080	mg/Kg wet	0.100		88.2	40-140	1.17	30	
Endosulfan Sulfate [2C]	0.087	0.0080	mg/Kg wet	0.100		87.1	40-140	1.40	30	
Endrin	0.099	0.0080	mg/Kg wet	0.100		99.0	40-140	1.31	30	
Endrin [2C]	0.098	0.0080	mg/Kg wet	0.100		97.9	40-140	0.755	30	
Endrin Aldehyde	0.057	0.0080	mg/Kg wet	0.100		57.1	40-140	0.911	30	
Endrin Aldehyde [2C]	0.060	0.0080	mg/Kg wet	0.100		59.7	40-140	4.19	30	
Endrin Ketone	0.097	0.0080	mg/Kg wet	0.100		97.4	40-140	1.35	30	
Endrin Ketone [2C]	0.096	0.0080	mg/Kg wet	0.100		96.0	40-140	1.43	30	
Heptachlor	0.090	0.0050	mg/Kg wet	0.100		89.9	40-140	1.43	30	
Heptachlor [2C]	0.093	0.0050	mg/Kg wet	0.100		92.6	40-140	0.549	30	
Heptachlor Epoxide	0.091	0.0050	mg/Kg wet	0.100		91.0	40-140	1.22	30	
Heptachlor Epoxide [2C]	0.092	0.0050	mg/Kg wet	0.100		91.8	40-140	0.278	30	
Hexachlorobenzene	0.086	0.0060	mg/Kg wet	0.100		86.1	40-140	0.943	30	
Hexachlorobenzene [2C]	0.088	0.0060	mg/Kg wet	0.100		88.5	40-140	0.360	30	
Methoxychlor	0.099	0.050	mg/Kg wet	0.100		99.0	40-140	1.87	30	
Methoxychlor [2C]	0.099	0.050	mg/Kg wet	0.100		98.5	40-140	2.11	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		79.8	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 B153807 - SW-846 3546										
Blank (B153807-BLK1)				Prepared: 07/16/16 Analyzed: 07/18/16						
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	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.189*		mg/Kg wet	0.200		94.3	30-150			
LCS (B153807-BS1)				Prepared: 07/16/16 Analyzed: 07/18/16						
Aroclor-1016	0.24	0.020	mg/Kg wet	0.200		118	40-140			
Aroclor-1016 [2C]	0.23	0.020	mg/Kg wet	0.200		114	40-140			
Aroclor-1260	0.24	0.020	mg/Kg wet	0.200		120	40-140			
Aroclor-1260 [2C]	0.23	0.020	mg/Kg wet	0.200		117	40-140			
Surrogate: Decachlorobiphenyl	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg wet	0.200		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.4	30-150			
LCS Dup (B153807-BSD1)				Prepared: 07/16/16 Analyzed: 07/18/16						
Aroclor-1016	0.23	0.020	mg/Kg wet	0.200		116	40-140	2.05	30	
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		111	40-140	2.27	30	
Aroclor-1260	0.24	0.020	mg/Kg wet	0.200		119	40-140	1.49	30	
Aroclor-1260 [2C]	0.23	0.020	mg/Kg wet	0.200		115	40-140	1.73	30	
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.8	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 B153833 - SW-846 8151										
Blank (B153833-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16						
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							
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							
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	*77.7*		µg/kg wet	95.0		81.8	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*65.9*		µg/kg wet	95.0		69.4	30-150			
LCS (B153833-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16						
2,4-D	107	25	µg/kg wet	125		85.7	40-140			
2,4-D [2C]	91.0	25	µg/kg wet	125		72.8	40-140			
2,4-DB	124	25	µg/kg wet	125		98.8	40-140			
2,4-DB [2C]	99.7	25	µg/kg wet	125		79.8	40-140			
2,4,5-TP (Silvex)	10.3	2.5	µg/kg wet	12.5		82.5	40-140			
2,4,5-TP (Silvex) [2C]	9.46	2.5	µg/kg wet	12.5		75.6	40-140			
2,4,5-T	10.7	2.5	µg/kg wet	12.5		85.7	40-140			
2,4,5-T [2C]	9.87	2.5	µg/kg wet	12.5		78.9	40-140			
Dalapon	172	62	µg/kg wet	312		55.2	40-140			
Dalapon [2C]	158	62	µg/kg wet	312		50.5	40-140			
Dicamba	11.2	2.5	µg/kg wet	12.5		89.4	40-140			
Dicamba [2C]	10.0	2.5	µg/kg wet	12.5		80.4	40-140			
Dichloroprop	140	25	µg/kg wet	125		112	40-140			
Dichloroprop [2C]	126	25	µg/kg wet	125		101	40-140			
Dinoseb	2.92	12	µg/kg wet	62.5		4.68	0-42.4			J
Dinoseb [2C]	2.45	12	µg/kg wet	62.5		3.92	0-41.1			J
MCPA	10600	2500	µg/kg wet	12500		85.2	40-140			
MCPA [2C]	9880	2500	µg/kg wet	12500		79.1	40-140			
MCPP	12100	2500	µg/kg wet	12500		97.0	40-140			
MCPP [2C]	9750	2500	µg/kg wet	12500		78.0	40-140			
Surrogate: 2,4-Dichlorophenylacetic acid	*95.7*		µg/kg wet	100		95.7	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*79.7*		µg/kg wet	100		79.7	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 B153833 - SW-846 8151										
LCS Dup (B153833-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16						
2,4-D	105	25	µg/kg wet	125		84.1	40-140	1.98	30	
2,4-D [2C]	87.7	25	µg/kg wet	125		70.2	40-140	3.67	30	
2,4-DB	116	25	µg/kg wet	125		92.8	40-140	6.36	30	
2,4-DB [2C]	99.2	25	µg/kg wet	125		79.4	40-140	0.455	30	
2,4,5-TP (Silvex)	10.2	2.5	µg/kg wet	12.5		81.3	40-140	1.47	30	
2,4,5-TP (Silvex) [2C]	9.37	2.5	µg/kg wet	12.5		75.0	40-140	0.894	30	
2,4,5-T	10.4	2.5	µg/kg wet	12.5		83.6	40-140	2.60	30	
2,4,5-T [2C]	9.99	2.5	µg/kg wet	12.5		80.0	40-140	1.24	30	
Dalapon	173	62	µg/kg wet	312		55.5	40-140	0.557	30	
Dalapon [2C]	160	62	µg/kg wet	312		51.2	40-140	1.32	30	
Dicamba	10.8	2.5	µg/kg wet	12.5		86.6	40-140	3.26	30	
Dicamba [2C]	9.91	2.5	µg/kg wet	12.5		79.4	40-140	1.34	30	
Dichloroprop	142	25	µg/kg wet	125		113	40-140	1.59	30	
Dichloroprop [2C]	122	25	µg/kg wet	125		98.0	40-140	3.01	30	
Dinoseb	2.68	12	µg/kg wet	62.5		4.29	0-42.4	8.66	30	J
Dinoseb [2C]	2.04	12	µg/kg wet	62.5		3.26	0-41.1	18.6	30	J
MCPA	10400	2500	µg/kg wet	12500		83.4	40-140	2.22	30	
MCPA [2C]	9870	2500	µg/kg wet	12500		79.0	40-140	0.0807	30	
MCPP	11500	2500	µg/kg wet	12500		92.2	40-140	5.20	30	
MCPP [2C]	9240	2500	µg/kg wet	12500		73.9	40-140	5.45	30	
Surrogate: 2,4-Dichlorophenylacetic acid	*92.0*		µg/kg wet	100		92.0	30-150			
Surrogate: 2,4-Dichlorophenylacetic acid [2C]	*76.8*		µg/kg wet	100		76.9	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 B153811 - SW-846 3546										
Blank (B153811-BLK1)				Prepared: 07/16/16 Analyzed: 07/18/16						
Diesel Range Organics	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	*2.98*		mg/Kg wet	3.33		89.4	40-140			
LCS (B153811-BS1)				Prepared: 07/16/16 Analyzed: 07/18/16						
Diesel Range Organics	24.6	8.3	mg/Kg wet	33.3		73.7	40-140			
Surrogate: o-Terphenyl	*3.12*		mg/Kg wet	3.33		93.7	40-140			
LCS Dup (B153811-BSD1)				Prepared: 07/16/16 Analyzed: 07/18/16						
Diesel Range Organics	24.7	8.3	mg/Kg wet	33.3		74.1	40-140	0.611		
Surrogate: o-Terphenyl	*3.10*		mg/Kg wet	3.33		93.0	40-140			
Batch B153927 - SW-846 5035/5030B										
Blank (B153927-BLK1)				Prepared & Analyzed: 07/18/16						
Gasoline Range Organics (GRO)	ND	1.0	mg/Kg wet							
Surrogate: 1-Chloro-3-fluorobenzene	*0.0139*		mg/Kg wet	0.0150		92.9	70-130			
LCS (B153927-BS1)				Prepared & Analyzed: 07/18/16						
Gasoline Range Organics (GRO)	0.238	0.010	mg/Kg wet	0.250		95.1	80-120			
Surrogate: 1-Chloro-3-fluorobenzene	*0.0148*		mg/Kg wet	0.0150		98.7	70-130			
LCS Dup (B153927-BSD1)				Prepared & Analyzed: 07/18/16						
Gasoline Range Organics (GRO)	0.245	0.010	mg/Kg wet	0.250		98.0	80-120	3.04	30	
Surrogate: 1-Chloro-3-fluorobenzene	*0.0140*		mg/Kg wet	0.0150		93.2	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 B153845 - SW-846 3051										
Blank (B153845-BLK1)				Prepared & Analyzed: 07/18/16						
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 (B153845-BS1)				Prepared & Analyzed: 07/18/16						
Aluminum	6870	5.0	mg/Kg wet	8080		85.0	51.2-148.1			
Antimony	136	5.0	mg/Kg wet	88.2		154	0-210.3			
Arsenic	61.6	5.0	mg/Kg wet	57.0		108	77.8-122.1			
Barium	103	5.0	mg/Kg wet	110		93.4	82-117.4			
Beryllium	78.2	0.50	mg/Kg wet	67.5		116	82.3-117.7			
Cadmium	84.5	0.50	mg/Kg wet	77.8		109	81.9-118.2			
Calcium	6610	15	mg/Kg wet	6450		102	81.9-118.2			
Chromium	65.6	1.0	mg/Kg wet	65.0		101	78.7-120.6			
Cobalt	63.3	5.0	mg/Kg wet	58.8		108	83-116.7			
Copper	57.9	1.0	mg/Kg wet	56.4		103	80.4-119.6			
Iron	12800	5.0	mg/Kg wet	14700		86.8	46.8-153			
Lead	86.0	1.5	mg/Kg wet	85.6		100	82.4-117.8			
Magnesium	2550	15	mg/Kg wet	2710		94.0	75.5-124.2			
Manganese	272	1.0	mg/Kg wet	273		99.7	80.8-119.2			
Nickel	63.4	1.0	mg/Kg wet	61.3		103	82.2-117.8			
Potassium	2530	200	mg/Kg wet	2420		105	69.9-130.1			
Selenium	84.6	10	mg/Kg wet	78.9		107	77.1-122.3			
Silver	51.6	1.0	mg/Kg wet	54.2		95.2	74.3-125.4			
Sodium	955	200	mg/Kg wet	914		105	69.9-130.5			
Thallium	194	5.0	mg/Kg wet	178		109	78.2-121.6			
Vanadium	55.1	2.0	mg/Kg wet	56.3		97.9	64.8-135.2			
Zinc	219	2.0	mg/Kg wet	198		111	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 B153845 - SW-846 3051											
LCS Dup (B153845-BSD1)				Prepared & Analyzed: 07/18/16							
Aluminum	6130	4.9	mg/Kg wet	8080		75.8		51.2-148.1	11.4	30	
Antimony	150	4.9	mg/Kg wet	88.2		170		0-210.3	9.45	30	
Arsenic	62.5	4.9	mg/Kg wet	57.0		110		77.8-122.1	1.56	30	
Barium	101	4.9	mg/Kg wet	110		92.2		82-117.4	1.38	30	
Beryllium	77.9	0.49	mg/Kg wet	67.5		115		82.3-117.7	0.440	30	
Cadmium	80.7	0.49	mg/Kg wet	77.8		104		81.9-118.2	4.56	30	
Calcium	6560	15	mg/Kg wet	6450		102		81.9-118.2	0.796	30	
Chromium	64.6	0.98	mg/Kg wet	65.0		99.4		78.7-120.6	1.50	30	
Cobalt	61.8	4.9	mg/Kg wet	58.8		105		83-116.7	2.37	30	
Copper	57.1	0.98	mg/Kg wet	56.4		101		80.4-119.6	1.40	30	
Iron	12700	4.9	mg/Kg wet	14700		86.2		46.8-153	0.721	30	
Lead	87.8	1.5	mg/Kg wet	85.6		103		82.4-117.8	2.07	30	
Magnesium	2420	15	mg/Kg wet	2710		89.2		75.5-124.2	5.25	30	
Manganese	280	0.98	mg/Kg wet	273		102		80.8-119.2	2.68	30	
Nickel	62.6	0.98	mg/Kg wet	61.3		102		82.2-117.8	1.34	30	
Potassium	2400	200	mg/Kg wet	2420		99.2		69.9-130.1	5.37	30	
Selenium	85.2	9.8	mg/Kg wet	78.9		108		77.1-122.3	0.752	30	
Silver	53.5	0.98	mg/Kg wet	54.2		98.8		74.3-125.4	3.68	30	
Sodium	927	200	mg/Kg wet	914		101		69.9-130.5	2.99	30	
Thallium	184	4.9	mg/Kg wet	178		103		78.2-121.6	5.14	30	
Vanadium	54.7	2.0	mg/Kg wet	56.3		97.2		64.8-135.2	0.726	30	
Zinc	216	2.0	mg/Kg wet	198		109		79.7-120.8	1.42	30	
MRL Check (B153845-MRL1)				Prepared & Analyzed: 07/18/16							
Aluminum	5.11	2.5	mg/Kg wet					0-200			
Lead	0.898	0.75	mg/Kg wet	0.752		119		80-120			
Batch B153868 - SW-846 7471											
Blank (B153868-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Mercury	ND	0.025	mg/Kg wet								
LCS (B153868-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Mercury	4.49	0.38	mg/Kg wet	3.98		113		73.7-126.3			
LCS Dup (B153868-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Mercury	3.90	0.39	mg/Kg wet	3.98		98.0		73.7-126.3	14.1	30	
Duplicate (B153868-DUP1)		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Mercury	0.493	0.053	mg/Kg dry		0.377				26.5	35	
Matrix Spike (B153868-MS1)		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Mercury	0.649	0.053	mg/Kg dry	0.176	0.377	**155**	*	75-125			MS-11

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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 B153810 - SW-846 9045C											
LCS (B153810-BS1)				Prepared & Analyzed: 07/16/16							
pH	6.04		pH Units	6.00		101		98.4-110			
Duplicate (B153810-DUP1)		**Source: 16G0709-04**		Prepared & Analyzed: 07/16/16							
pH	7.2		pH Units		7.2				0.279	5	
Batch B153913 - SW-846 7196A											
Blank (B153913-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	ND	0.16	mg/Kg wet								
LCS (B153913-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	92	3.6	mg/Kg wet	99.5		92.2		80-120			
LCS Dup (B153913-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	89	3.6	mg/Kg wet	99.2		89.8		80-120	2.86	20	
Matrix Spike (B153913-MS1) Soluble MS		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	30	0.86	mg/Kg dry	43.1	ND	**69.8**	*	75-125			MS-16
Matrix Spike (B153913-MS2) PDMS		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	33	1.7	mg/Kg dry	43.0	ND	76.5		75-125			
Matrix Spike (B153913-MS3) Insoluble MS		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	420	17	mg/Kg dry	685	ND	**60.9**	*	75-125			MS-16
Matrix Spike Dup (B153913-MSD1) Soluble MS Dup		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Hexavalent Chromium	25	0.86	mg/Kg dry	42.8	ND	**59.3**	*	75-125	17.0	35	MS-16
Batch B153960 - SW-846 9014											
Blank (B153960-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Cyanide	ND	0.49	mg/Kg wet								
LCS (B153960-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Cyanide	42	2.4	mg/Kg wet	45.8		91.4		80-120			
LCS Dup (B153960-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16							
Cyanide	41	2.3	mg/Kg wet	44.0		92.8		80-120	2.37	20	
Matrix Spike (B153960-MS1)		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16							
Cyanide	15	0.48	mg/Kg dry	16.1	ND	95.1		75-125			

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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 B153960 - SW-846 9014										
Matrix Spike Dup (B153960-MSD1)		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16						
Cyanide	15	0.47	mg/Kg dry	15.7	ND	93.4	75-125	4.21	35	
Batch B153973 - SW-846 9014										
Blank (B153973-BLK1)				Prepared & Analyzed: 07/19/16						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B153973-BS1)				Prepared & Analyzed: 07/19/16						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		94.4	90.5-110			
Batch B153974 - SW-846 9030A										
Blank (B153974-BLK1)				Prepared & Analyzed: 07/19/16						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B153974-BS1)				Prepared & Analyzed: 07/19/16						
Reactive Sulfide	18	2.0	mg/Kg	14.8		119	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 B153832 - SW-846 7470A Prep										
Blank (B153832-BLK1)				Prepared & Analyzed: 07/18/16						
Mercury	ND	0.00010	mg/L							
LCS (B153832-BS1)				Prepared & Analyzed: 07/18/16						
Mercury	0.00196	0.00010	mg/L	0.00200		98.0	80-120			
LCS Dup (B153832-BSD1)				Prepared & Analyzed: 07/18/16						
Mercury	0.00201	0.00010	mg/L	0.00200		101	80-120	2.53	20	
Matrix Spike (B153832-MS1)		**Source: 16G0709-04**		Prepared & Analyzed: 07/18/16						
Mercury	0.00198	0.00010	mg/L	0.00200	ND	99.2	75-125			
Batch B153859 - SW-846 3010A										
Blank (B153859-BLK1)				Prepared: 07/18/16 Analyzed: 07/19/16						
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 (B153859-BS1)				Prepared: 07/18/16 Analyzed: 07/19/16						
Arsenic	0.548	0.010	mg/L	0.500		110	80-120			
Barium	0.513	0.050	mg/L	0.500		103	80-120			
Cadmium	0.532	0.0040	mg/L	0.500		106	80-120			
Chromium	0.514	0.010	mg/L	0.500		103	80-120			
Lead	0.488	0.010	mg/L	0.500		97.7	80-120			
Selenium	0.565	0.050	mg/L	0.500		113	80-120			
Silver	0.514	0.0050	mg/L	0.500		103	80-120			
LCS Dup (B153859-BSD1)				Prepared: 07/18/16 Analyzed: 07/19/16						
Arsenic	0.538	0.010	mg/L	0.500		108	80-120	1.75	20	
Barium	0.506	0.050	mg/L	0.500		101	80-120	1.23	20	
Cadmium	0.524	0.0040	mg/L	0.500		105	80-120	1.51	20	
Chromium	0.499	0.010	mg/L	0.500		99.9	80-120	2.85	20	
Lead	0.493	0.010	mg/L	0.500		98.7	80-120	1.04	20	
Selenium	0.568	0.050	mg/L	0.500		114	80-120	0.469	20	
Silver	0.537	0.0050	mg/L	0.500		107	80-120	4.51	20	
Matrix Spike (B153859-MS1)		**Source: 16G0709-04**		Prepared: 07/18/16 Analyzed: 07/19/16						
Arsenic	0.530	0.010	mg/L	0.500	ND	106	75-125			
Barium	0.858	0.050	mg/L	0.500	0.330	106	75-125			
Cadmium	0.532	0.0040	mg/L	0.500	0.00595	105	75-125			
Chromium	0.500	0.010	mg/L	0.500	ND	100	75-125			
Lead	0.644	0.010	mg/L	0.500	0.157	97.5	75-125			
Selenium	0.594	0.050	mg/L	0.500	0.0397	111	75-125			
Silver	0.539	0.0050	mg/L	0.500	ND	108	75-125			

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BREAKDOWN REPORT

Lab Sample ID: **S011684-PEM1** **Analyzed:** **07/19/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.51
Endrin [1]	2.06

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.77
Endrin [2]	2.19

BREAKDOWN REPORT

Lab Sample ID: **S011684-PEM2** **Analyzed:** **07/19/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.99
Endrin [1]	1.59

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.33
Endrin [2]	1.76

BREAKDOWN REPORT

Lab Sample ID: **S011684-PEM3** **Analyzed:** **07/19/2016**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.99
Endrin [1]	1.79

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BREAKDOWN REPORT

Lab Sample ID: **S011684-PEM3** **Analyzed:** **07/19/2016**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	1.34
Endrin [2]	1.92

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

TRC-Composite-1

Lab Sample ID: 16G0709-04 Date(s) Analyzed: 07/19/2016 07/19/2016

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	7.69	-0.03	0.03	0.011	
	2	7.75	-0.03	0.03	0.011	3.7
4,4'-DDE	1	7.23	-0.03	0.03	0.0087	
	2	7.30	-0.03	0.03	0.0070	21.2
4,4'-DDT	1	7.91	-0.03	0.03	0.012	
	2	8.00	-0.03	0.03	0.015	23.9
Aroclor-1254	1	0.00	0.00	0.00	0.088	
	2	0.00	0.00	0.00	0.15	51.8
Aroclor-1260	1	0.00	0.00	0.00	0.080	
	2	0.00	0.00	0.00	0.086	7.1
Chlordane	1	0.00	-0.03	0.03	0.13	
	2	0.00	-0.03	0.03	0.20	39.5
Dieldrin	1	7.46	-0.03	0.03	0.0048	
	2	7.43	-0.03	0.03	0.0043	12.0
Heptachlor Epoxide	1	6.98	-0.03	0.03	0.0031	
	2	6.92	-0.03	0.03	0.0029	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B153807-BS1

Date(s) Analyzed: 07/18/2016 07/18/2016

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	0.24	
	2	0.00	0.00	0.00	0.23	3
Aroclor-1260	1	0.00	0.00	0.00	0.24	
	2	0.00	0.00	0.00	0.23	5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B153807-BSD1 Date(s) Analyzed: 07/18/2016 07/18/2016

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	0.23	
	2	0.00	0.00	0.00	0.22	5
Aroclor-1260	1	0.00	0.00	0.00	0.24	
	2	0.00	0.00	0.00	0.23	3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B153808-BS1 Date(s) Analyzed: 07/19/2016 07/19/2016

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	7.69	-0.03	0.03	0.10	
	2	7.75	-0.03	0.03	0.10	3
4,4'-DDE	1	7.23	-0.03	0.03	0.10	
	2	7.30	-0.03	0.03	0.10	3
4,4'-DDT	1	7.91	-0.03	0.03	0.10	
	2	8.00	-0.03	0.03	0.10	4
Alachlor	1	6.63	-0.03	0.03	0.082	
	2	6.42	-0.03	0.03	0.085	4
Aldrin	1	6.54	-0.03	0.03	0.094	
	2	6.50	-0.03	0.03	0.094	1
alpha-BHC	1	5.76	-0.03	0.03	0.091	
	2	5.73	-0.03	0.03	0.090	1
alpha-Chlordane	1	7.18	-0.03	0.03	0.095	
	2	7.17	-0.03	0.03	0.096	1
beta-BHC	1	6.04	-0.03	0.03	0.087	
	2	6.02	-0.03	0.03	0.085	2
delta-BHC	1	6.17	-0.03	0.03	0.086	
	2	6.23	-0.03	0.03	0.086	0
Dieldrin	1	7.47	-0.03	0.03	0.097	
	2	7.43	-0.03	0.03	0.095	2
Endosulfan I	1	7.28	-0.03	0.03	0.092	
	2	7.22	-0.03	0.03	0.093	2
Endosulfan II	1	7.82	-0.03	0.03	0.088	
	2	7.83	-0.03	0.03	0.088	0
Endosulfan Sulfate	1	8.44	-0.03	0.03	0.089	
	2	8.29	-0.03	0.03	0.088	1
Endrin	1	7.65	-0.03	0.03	0.10	
	2	7.67	-0.03	0.03	0.099	1
Endrin Aldehyde	1	8.14	-0.03	0.03	0.057	
	2	8.09	-0.03	0.03	0.057	1
Endrin Ketone	1	8.62	-0.03	0.03	0.099	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS

Lab Sample ID: B153808-BS1 Date(s) Analyzed: 07/19/2016 07/19/2016

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
	2	8.63	-0.03	0.03	0.097	2
gamma-BHC (Lindane)	1	5.98	-0.03	0.03	0.097	
	2	5.97	-0.03	0.03	0.095	2
gamma-Chlordane	1	7.07	-0.03	0.03	0.094	
	2	7.06	-0.03	0.03	0.099	5
Heptachlor	1	6.32	-0.03	0.03	0.091	
	2	6.27	-0.03	0.03	0.093	2
Heptachlor Epoxide	1	6.98	-0.03	0.03	0.092	
	2	6.92	-0.03	0.03	0.092	0
Hexachlorobenzene	1	5.65	-0.03	0.03	0.085	
	2	5.64	-0.03	0.03	0.089	4
Methoxychlor	1	8.26	-0.03	0.03	0.10	
	2	8.47	-0.03	0.03	0.10	1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B153808-BSD1 Date(s) Analyzed: 07/19/2016 07/19/2016

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
4,4'-DDD	1	7.69	-0.03	0.03	0.10	
	2	7.75	-0.03	0.03	0.099	2
4,4'-DDE	1	7.23	-0.03	0.03	0.10	
	2	7.30	-0.03	0.03	0.10	1
4,4'-DDT	1	7.91	-0.03	0.03	0.10	
	2	8.00	-0.03	0.03	0.10	2
Alachlor	1	6.63	-0.03	0.03	0.084	
	2	6.42	-0.03	0.03	0.089	6
Aldrin	1	6.54	-0.03	0.03	0.093	
	2	6.50	-0.03	0.03	0.095	2
alpha-BHC	1	5.77	-0.03	0.03	0.089	
	2	5.73	-0.03	0.03	0.090	2
alpha-Chlordane	1	7.18	-0.03	0.03	0.094	
	2	7.17	-0.03	0.03	0.095	2
beta-BHC	1	6.04	-0.03	0.03	0.085	
	2	6.02	-0.03	0.03	0.085	0
delta-BHC	1	6.17	-0.03	0.03	0.072	
	2	6.23	-0.03	0.03	0.074	3
Dieldrin	1	7.47	-0.03	0.03	0.096	
	2	7.43	-0.03	0.03	0.095	1
Endosulfan I	1	7.28	-0.03	0.03	0.091	
	2	7.22	-0.03	0.03	0.092	2
Endosulfan II	1	7.82	-0.03	0.03	0.087	
	2	7.83	-0.03	0.03	0.088	1
Endosulfan Sulfate	1	8.44	-0.03	0.03	0.088	
	2	8.29	-0.03	0.03	0.087	1
Endrin	1	7.65	-0.03	0.03	0.099	
	2	7.67	-0.03	0.03	0.098	1
Endrin Aldehyde	1	8.14	-0.03	0.03	0.057	
	2	8.09	-0.03	0.03	0.060	5
Endrin Ketone	1	8.62	-0.03	0.03	0.097	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8081B

LCS Dup

Lab Sample ID: B153808-BSD1 Date(s) Analyzed: 07/19/2016 07/19/2016

Instrument ID (1): ECD2 Instrument ID (2): ECD2

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
	2	8.63	-0.03	0.03	0.096	1
gamma-BHC (Lindane)	1	5.98	-0.03	0.03	0.094	
	2	5.97	-0.03	0.03	0.093	1
gamma-Chlordane	1	7.08	-0.03	0.03	0.092	
	2	7.06	-0.03	0.03	0.098	6
Heptachlor	1	6.32	-0.03	0.03	0.090	
	2	6.27	-0.03	0.03	0.093	3
Heptachlor Epoxide	1	6.98	-0.03	0.03	0.091	
	2	6.92	-0.03	0.03	0.092	1
Hexachlorobenzene	1	5.65	-0.03	0.03	0.086	
	2	5.64	-0.03	0.03	0.088	2
Methoxychlor	1	8.26	-0.03	0.03	0.099	
	2	8.47	-0.03	0.03	0.099	0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8151A

LCS

Lab Sample ID: B153833-BS1

Date(s) Analyzed: 07/19/2016 07/19/2016

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	15.70	0.00	0.00	10.7	
	2	15.36	0.00	0.00	9.87	8
2,4,5-TP (Silvex)	1	15.08	0.00	0.00	10.3	
	2	14.52	0.00	0.00	9.46	9
2,4-D	1	13.25	0.00	0.00	107	
	2	12.81	0.00	0.00	91.0	16
2,4-DB	1	16.78	0.00	0.00	124	
	2	16.47	0.00	0.00	99.7	22
Dalapon	1	4.39	0.00	0.00	172	
	2	3.88	0.00	0.00	158	8
Dicamba	1	11.17	0.00	0.00	11.2	
	2	10.67	0.00	0.00	10.0	11
Dichloroprop	1	12.76	0.00	0.00	140	
	2	12.15	0.00	0.00	126	11
Dinoseb	1	17.53	0.00	0.00	2.92	
	2	16.87	0.00	0.00	2.45	18
MCPA	1	11.98	0.00	0.00	10600	
	2	11.48	0.00	0.00	9880	7
MCPP	1	11.66	0.00	0.00	12100	
	2	11.00	0.00	0.00	9750	22

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8151A

LCS Dup

Lab Sample ID: B153833-BSD1 Date(s) Analyzed: 07/19/2016 07/19/2016

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	15.70	0.00	0.00	10.4	
	2	15.36	0.00	0.00	9.99	4
2,4,5-TP (Silvex)	1	15.08	0.00	0.00	10.2	
	2	14.52	0.00	0.00	9.37	8
2,4-D	1	13.25	0.00	0.00	105	
	2	12.82	0.00	0.00	87.7	18
2,4-DB	1	16.78	0.00	0.00	116	
	2	16.47	0.00	0.00	99.2	16
Dalapon	1	4.39	0.00	0.00	173	
	2	3.87	0.00	0.00	160	8
Dicamba	1	11.17	0.00	0.00	10.8	
	2	10.67	0.00	0.00	9.91	9
Dichloroprop	1	12.76	0.00	0.00	142	
	2	12.15	0.00	0.00	122	15
Dinoseb	1	17.53	0.00	0.00	2.68	
	2	16.87	0.00	0.00	2.04	27
MCPA	1	11.98	0.00	0.00	10400	
	2	11.48	0.00	0.00	9870	5
MCPP	1	11.66	0.00	0.00	11500	
	2	11.00	0.00	0.00	9240	22

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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.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
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-11	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-16	For solid method SW846-7196A, the matrix spike is outside of control limits. pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.
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.
PR-03	Sample preserved in the laboratory, not in the field as required by the method.
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-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.
W-06	Elevated method reporting limit due to intense color of sample

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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 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
Bromodichloromethane	CT,NH,NY,ME,VA
Bromoform	CT,NH,NY,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
1,2,3-Trichloropropane	NH,NY,ME,VA
1,2,4-Trimethylbenzene	CT,NH,NY,ME,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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

YORK ANALYTICAL LABORATORIES INC.
YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

ConTest Analytical Laboratory.

Field Chain-of-Custody Record

16G0709

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. _____

YOUR Information

Company: TRC Engineers, Inc.
Address: 1430 Broadway, 10th Fl New York, NY 10018
Phone No. 212-221-7322
Contact Person: Lindsay Metcalf
E-Mail Address: lmetcalf@trcsolutions.com

Report To:

Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

Invoice To:

Company: SAME
Address:
Phone No.
Attention:
E-Mail Address:

YOUR Project ID

260992

Purchase Order No.

Samples from: CT___ NY___ NJ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☐
- RUSH - Two Day ☒
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- ~~Standard (5-7 Days)~~ ☒

Report Type

- Summary Report
- Summary w/ QA Summary
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison Excel Spreadsheet
Compare to the following Regs. (please fill in):

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Jenna Raup
Name (printed)

Matrix Codes
S - soil
Other - specify (oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
TRC-TP-1-Grab 01	7/15/16 18:45	S-grab	TCL/CP-51 Tables 1,2,3/NJDERS VOCs by 8260 and TPH DRO/TPH GRO	3-5gram En Cores + 1 8oz jar
TRC-TP-2-Grab 02	7/15/16 18:50			
TRC-TP-3-Grab 03	7/15/16 20:10			
TRC-Composite-1 04	7/15/16 20:15	S-Composite	TCL/CP-51/NJDERS SVOCs by 8270, TAL Metals (incl. CN⁻ + Hex Cr) ~~TCLP Metals, Herbicides, Pesticides, Corrosivity, Reactivity~~ Ignitability, PCBs	5-8oz jars

Frozen @ 9:05 (BLF)

Comments
NYCSCA Project
See attached page for analytical Methods.

Preservation Check those Applicable: 4°C___ Frozen___ HCl___ MeOH___ HNO_3___ H_2SO_4___ NaOH___ ZnAc___ Ascorbic Acid___ Other___

Special Instructions: Field Filtered ☐ Lab to Filter ☐

Samples Relinquished By	Date/Time	Samples Received By	Date/Time
[signature]	7/16/16 9:00	[signature] 3.3C	7/16/16 9:00
[signature] 3.3C	7/16/16	Samples Received in LAB by	Date/Time

Temperature on Receipt ___°C

Table of Contents

Remediation 10 (DER-10) Technical Guidance for Site Investigation and Remediation for up to approximately 1,000 cubic yards of soil exported from a Site and typical New York City area disposal facility requirements for up to approximately 800 cubic yards of soil exported from a Site.

- The discrete soil samples will not be composited and the sample to be collected for VOC analysis will be collected with an encore sampler. All other soil samples will be collected and composited using a dedicated disposable Teflon scoop and disposable aluminum pan.

- Discrete soil samples will be submitted for the following laboratory analyses:

    - Volatile organic compounds via USEPA Method 8260C (Target Compound List [TCL], and NYSDEC Commissioner Policy 51 Tables 1, 2 and 3 list [CP-51], and NJDCRS); and,

    - Total petroleum hydrocarbons (diesel range organics and gasoline range organics).

- Composite samples will be submitted for the following laboratory analyses:

    - Semi-volatile organic compounds via USEPA Method 8270D (TCL, CP-51 and NJDCRS);
    - Total metals via USEPA Methods 6000/7000 (Target Analyte List [TAL] including cyanide and hexavalent chromium);
    - Toxicity characteristic leaching procedure (TCLP) Resource Conservation and Recovery Act (RCRA) metals via USEPA method 1311/6010;
    - Herbicides and pesticides via USEPA Methods 8081A and 8151A (TCL plus Silvex);
    - Corrosivity via USEPA Method 9040C;
    - Reactivity (sulfide and cyanide);
    - Ignitability via USEPA Method 1010A; and,
    - Polychlorinated Biphenyls (PCBs) EPA Method 8082 (TCL).

- Soil samples will be containerized in laboratory prepared jars, labeled, sealed, and placed in a chilled cooler for shipment to the laboratory. Laboratory analyses will be performed by a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory.

Task 3 – Report Preparation

A summary report will be prepared after the laboratory results are received. The report will document the results of the sampling effort and include test pit boring logs, photograph log, present the results of the geophysical survey and sampling, and include comparisons of the analytical data to the appropriate guidelines and regulations, as published by New York State Department of Environmental Conservation (NYSDEC) and United States Department of Environmental Protection (USEPA). The New Jersey Direct Contact Soil Remediation Standards (NJDCRS) list parameters are included in this proposal to satisfy soil disposal facilities in New Jersey, TRC has not included comparison of the results to the NJDCRS.

The report will also provide conclusions, and recommendations for further sampling or additional actions, if appropriate.

39 Spruce St.
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Sample Receipt Checklist

CLIENT NAME: TRC **RECEIVED BY:** RLF **DATE:** 7/16/16

1) **Was the chain(s) of custody relinquished and signed?** **Yes** X **No** ____ **No COC Incl.**
2) **Does the chain agree with the samples?** **Yes** X **No** ____
   If not, explain:
3) **Are all the samples in good condition?** **Yes** X **No** ____
   If not, explain:
4) **How were the samples received:**

On Ice X Direct from Sampling ____ Ambient ____ In Cooler(s) X

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** X **No** ____ **N/A** ____

Temperature °C by Temp blank ____ Temperature °C by Temp gun 3.3°C

5) **Are there Dissolved samples for the lab to filter?** **Yes** ____ **No** X
   Who was notified ____ Date ____ Time ____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** X **No** ____
   Who was notified Mike M. Date 7/16 Time 905
7) **Location where samples are stored:** —

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** X
9) **Do all samples have the proper Base pH:** **Yes** ____ **No** ____ **N/A** X
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** ____ **N/A** X

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	8
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	3	Other	

40 mL vials: # HCl ____ # Methanol ____
Bisulfate ____ # DI Water ____
Thiosulfate ____ Unpreserved ____

Time and Date Frozen: 7/16/16 905

Page 2 of 2

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.	NA	
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.	NA	
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.	NA	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
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:** **Date/Time:**

RLF 7/16/16 9:00