

8 December 2021

John R. Koplas, RA
Senior Project Manager
Colliers
135 New Road, Madison, CT 06443

**RE: Test Pit and Topsoil Sampling Support
Derynoski Elementary School
Southington, Connecticut
Langan Project No.: 140239101**

Dear Mr. Koplas:

Langan CT, Inc. (Langan) was engaged by the Town of Southington to collect samples of suspected fill material and topsoil at the Derynoski Elementary School at 240 Main Street in Southington. The purpose of this sampling was to evaluate the potential presence of pesticides in the topsoil present in an area of the site that was historically used for cultivating agricultural row crops and to evaluate fill identified in a recent geotechnical investigation in the fields west of the school for potential impacts from various constituents of concern (COCs). Results were compared with applicable criteria from the Connecticut Department of Energy and Environmental Protection (CTDEEP) and Remediation Standard Regulations (RSRs), which specify the standards for remediation of environmentally contaminated soil and groundwater for regulated sites in Connecticut.

The specific RSR criteria used as guidance for this sampling event are as follows:

- Total soil sample results were compared to the Residential Direct Exposure Criteria (RDEC), and GA Pollutant Mobility Criteria (GA PMC).

The following is a summary of the sampling events and analytical results of the soil samples collected. Sampling locations are shown on Figure 1.

Fill Investigation

On October 13, 2021, Senior Staff Engineer William Adsit observed the advancement of five test pits (TP-1 through TP-5) by an employee of the Town of Southington's Highway Department using a John Deere 410G excavator. The test pits were advanced to depths ranging from 6 to 15 feet below ground surface (bgs). One discrete environmental soil sample was collected from each of the five test pits from varying depths to provide an overview of likely conditions throughout the investigation area.

Soils from each test pit were visually classified for soil type, grain size and texture. The general composition of each test pit is described in the test pit logs provided as Attachment A. In general, the soils in the field area consist of a thin layer of topsoil (ranging in thickness from approximately 4 to 12 inches), under which was a layer of typically platy, reddish-brown fine to coarse sand fill with trace to some gravel and cobbles ranging in thickness from one to 15 feet. Layers containing organic material (roots, twigs, etc.) and brownish soils consistent with topsoil were encountered in TP-3 and TP-4 at depths of 10 and 5.5 feet bgs, respectively. Large granular material ranging from coarse gravel to small boulders was encountered in TP-5 from approximately 2 feet bgs to 11 feet bgs, consistent with outwash material expected to be native in the area.

Each soil sample collected from the test pits was screened for total organic vapors using a field calibrated-photoionization detector (PID) equipped with a 10.6-electron volt (eV) lamp. PID readings from each sample collected from the five test pits ranged from 0.1 to 2.3 parts per million (ppm), which are consistent with background readings and not indicative of impacts from volatile organic compounds (VOCs). Soils were also evaluated for visual and olfactory indications of environmental impact. No visual or olfactory evidence of petroleum impacts (e.g., staining, odor, etc.) were identified in the test pits advanced as a part of this investigation.

Each grab sample collected from the test pits was submitted to York Analytical Laboratories, Inc. of Stratford, Connecticut (York) for laboratory analyses for the following COCs: VOCs, semi-volatile organic compounds (SVOCs), extractable total petroleum hydrocarbons (ETPH), pesticides, herbicides, polychlorinated biphenyls (PCBs), CT-listed metals, total chromium and total cyanide.

A summary of the sampling results is described below and presented in Table 1.

- The VOC methylene chloride was detected in test pits TP-1, TP-4 and TP-5 at concentrations ranging from 0.011 milligrams per kilogram (mg/kg) to 0.016 mg/kg. These concentrations do not exceed the RSR RDEC or GA PMC for methylene chloride. Additionally, the lab report indicates that methylene chloride was detected in the trip blanks and is a common lab artifact, which suggests this compound's presence in the samples may be due to accidental cross contamination.
- The VOCs 2-butanone (methyl ethyl ketone) and acetone were detected in test pits TP-3 and TP-4 at concentrations ranging from 0.0071 mg/kg to 0.010 mg/kg, and 0.027 mg/kg to 0.039 mg/kg, respectively. These concentrations do not exceed the RSR RDEC or GA PMC for either compound. VOCs were not detected in the remaining samples above the lab's method detection limit (MDL). Methyl ethyl ketone and acetone are common laboratory contaminants.

- ETPH was detected in test pit TP-3 at a concentration of 56.3 mg/kg. This concentration does not exceed the RSR RDEC or GA PMC. ETPH was not detected in the remaining samples above the lab's MDL.
- SVOCs, pesticides, herbicides and PCBs were not detected above the lab's MDL in the test pit samples. However, as noted below, the reported MDLs for one additional VOC, a number of SVOCs and several pesticides exceeded the GA PMC for those compounds.
- The following total metals were detected in the following ranges of concentrations (consistent with background concentrations expected for these metals) in the test pits identified below:
 - Antimony (3.12 mg/kg to 3.38 mg/kg) in TP-2 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for antimony.
 - Barium (75.4 mg/kg to 126 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for barium.
 - Cadmium (0.340 mg/kg to 0.407 mg/kg) in TP-3 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for cadmium.
 - Chromium (16.2 mg/kg to 21.2 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for chromium.
 - Copper (9.41 mg/kg to 16.5 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for copper.
 - Lead (4.31 mg/kg to 38.3 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for lead.
 - Nickel (12.4 mg/kg to 17.1 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for nickel.
 - Mercury (0.0673 mg/kg) in TP-4. This concentration does not exceed the RSR RDEC or GA PMC for mercury.
 - Vanadium (28.7 mg/kg to 54.1 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for vanadium.
 - Zinc (29.4 mg/kg to 59.7 mg/kg) in TP-1, TP-2, TP-3, TP-4 and TP-5. These concentrations do not exceed the RSR RDEC or GA PMC for zinc.

Analytical reports and chain-of-custody documentation are provided in Attachment B.

In-Situ ("Sampled-in-Place") Topsoil Samples

On October 13, 2021, Senior Staff Engineer William Adsit collected three in-situ topsoil samples (GS-1 through GS-3) from a grassy hill area adjacent to the school, which historical aerial photographs showed was once used for growing row crops. Each in-situ sample was collected by compositing five discrete grab samples of topsoil, collected approximately 5 feet apart. Each discrete grab sample was collected using a hand-held shovel, which was decontaminated with Liquinox liquid detergent and deionized water, between each in-situ sample composite location.

In-situ composite samples were submitted to York for analysis of pesticides and CTDEEP-list metals (totals only).

Total pesticides were compared to the RDEC and GA PMC; total metals were compared to the RDEC. Analytical results are presented in Table 1 and summarized below. Sample locations are shown on Figure 1, and the laboratory analytical report is provided as Attachment B.

- The pesticide DDT was detected in all three in-situ samples at concentrations ranging from 0.00663 to 0.0115 mg/kg. These concentrations do not exceed the RSR RDEC of 1.8 mg/kg. However, these total results do exceed the default GA PMC of 0.003 mg/kg. Additionally, as noted below, the reported MDLs for several additional pesticides exceeded the GA PMC for those compounds. The CTDEEP RSRs allow for an alternative method of analyzing pesticides using the synthetic precipitate leaching procedure (SPLP). Analysis by SPLP is a more representative assessment of the compounds leaching potential.
- The following total metals were detected in the following ranges of concentrations (consistent with background concentrations expected for these metals) in the topsoil samples identified below:
 - Antimony (3.44 mg/kg) in GS-3. This concentration does not exceed the RSR RDEC for antimony.
 - Barium (73.7 mg/kg to 101 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for barium.
 - Cadmium (0.666 mg/kg to 0.964 mg/kg) in GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for cadmium.
 - Chromium (16.2 mg/kg to 20.5 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for chromium.
 - Copper (17.3 mg/kg to 23.9 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for copper.
 - Lead (235 mg/kg to 378 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for lead.
 - Nickel (8.09 mg/kg to 15.0 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for nickel.
 - Mercury (0.0447 mg/kg to 0.0551 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for mercury.
 - Vanadium (31.4 mg/kg to 61.1 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for vanadium.
 - Zinc (76.0 mg/kg to 98.5 mg/kg) in GS-1, GS-2 and GS-3. These concentrations do not exceed the RSR RDEC for zinc.

Non-detections with Method Detection Limit (MDL) Exceeding an Applicable Criteria

The MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that is distinguishable from method blank results. It should be noted that one VOC, 23 SVOCs and seven pesticides were not detected in one or more topsoil or test pit soil samples above the lab's MDL but had at least one reported MDL exceeding an applicable RSR criteria. These substances are included in Table 1 and can be identified by the blue coloring of the substance's name and related MDL value in italicizes.

Closing

Based on the analytical results of soil samples collected by Langan as noted above, pesticides concentrations exceedances of the CTDEEP RSR default GA PMC were identified in the three surficial topsoil samples collected from the grassy area west of the school building. Because of the presence of pesticides in the topsoil at concentrations above the analytical detection limit and in exceedance with the GA PMC, the topsoil is considered a "polluted soil" in accordance with the CTDEEP RSRs; however, SPLP analysis may be used to demonstrate that this soil has a low potential to leach and concentrations may be below applicable criteria.

Sincerely,
Langan CT, Inc.

DRAFT

David V. Granucci
Project Engineer

DRAFT

David J. Hurley, LEP
Senior Manager/Brownfield Services

Enclosure(s): Table 1 – Test Pit and Topsoil Sampling Results
Figure 1 – Sample Location Map
Attachment A – Test Pit Logs
Attachment B – Laboratory Analytical Results

cc: Jamie Barr – Langan
John Koplas – Colliers

Table 1
Summary of Topsoil and Test Pit Soil Analytical Results
Project No. 140239101 - Derynoski Elementary School, 240 Main St, Southington, CT

Analyte	CAS Number	CT DEEP RSRs -		CT DEEP RSRs -		Location		GS-1		GS-2		GS-3		TP-1		TP-2		TP-3		TP-4		TP-5																									
		Direct Exposure		Pollutant		Sample Name		GS-1 10.13.2021(0-0.5)		GS-2 10.13.2021(0-0.5)		GS-3 10.13.2021(0-0.5)		TP-1 10.13.2021(0-4)		TP-2 10.13.2021(10-12)		TP-3 10.13.2021(10-11)		TP-4 10.13.2021(5-6)		TP-5 10.13.2021(1-2)																									
		Criteria for Soil		Mobility Criteria		Sample Date		10/13/2021		10/13/2021		10/13/2021		10/13/2021		10/13/2021		10/13/2021		10/13/2021		10/13/2021																									
		Residential		GA/GAA		Unit		0-0.5		0-0.5		0-0.5		0-4		10-12		10-11		5-6		1-2																									
		Criteria						Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF	Result	Q	MDL	RL	DF															
Volatile Organic Compounds																																															
1,2-Dibromo-3-Chloropropane	96-12-8	0.09	*	0.005	*	mg/kg	NA				NA				ND	U	0.0051	0.0051	1	ND	U	0.0041	0.0041	1	ND	U	0.0045	0.0045	1	ND	U	0.005	0.005	1	ND	U	0.0047	0.0047	1								
Acetone	67-64-1	500		14		mg/kg	NA				NA				ND	U	0.01	0.01	1	ND	U	0.0082	0.0082	1	0.027		0.009	0.009	1	0.039		0.0099	0.0099	1	ND	U	0.0094	0.0094	1								
Methyl Ethyl Ketone (2-Butanone)	78-93-3	500		8		mg/kg	NA				NA				ND	U	0.0051	0.0051	1	ND	U	0.0041	0.0041	1	0.0071		0.0045	0.0045	1	0.01		0.005	0.005	1	ND	U	0.0047	0.0047	1								
Methylene Chloride	75-09-2	82		0.1		mg/kg	NA				NA				0.011		0.01	0.01	1	ND	U	0.0082	0.0082	1	ND	U	0.009	0.009	1	0.015		0.0099	0.0099	1	0.016		0.0094	0.0094	1								
Semi-Volatile Organic Compounds																																															
1,2,4,5-Tetrachlorobenzene	95-94-3	20	*	0.1	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
1-Methylnaphthalene	90-12-0	21	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
2,4,6-Trichlorophenol	88-06-2	56	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
2,4-Dinitrophenol	51-28-5	140	*	0.3	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
2,4-Dinitrotoluene	121-14-2	0.9	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
2,6-Dinitrotoluene	606-20-2	0.9	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
2-Nitroaniline	88-74-4	31	*	0.3	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
3,3'-Dichlorobenzidine	91-94-1	1.4	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
3-Nitroaniline	99-09-2	31	*	0.3	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
4,6-Dinitro-2-Methylphenol	534-52-1	20	*	0.3	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
4-Chloroaniline	106-47-8	3.1	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
4-Nitroaniline	100-01-6	31	*	0.3	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Aniline (Phenylamine, Aminobenzene)	62-53-3	110	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Bis(2-chloroethoxy) methane	111-91-1	200	*	0.42	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Carbazole	86-74-8	31	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Dibenzofuran	132-64-9	68	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Hexachlorobutadiene	87-68-3	130	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Hexachlorocyclopentadiene	77-47-4	410	*	0.84	*	mg/kg	NA				NA				ND	U	1.02	1.02	2	ND	U	1.08	1.08	2	ND	U	1.29	1.29	2	ND	U	1.15	1.15	2	ND	U	1.06	1.06	2								
Nitrobenzene	98-95-3	4	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
n-Nitrosodi-N-Propylamine	621-64-7	0.2	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
n-Nitrosodiphenylamine	86-30-6	130	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Pentachloronitrobenzene	82-68-8	68	*	0.14	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Pyridine	110-86-1	20	*	0.2	*	mg/kg	NA				NA				ND	U	0.511	0.511	2	ND	U	0.539	0.539	2	ND	U	0.643	0.643	2	ND	U	0.576	0.576	2	ND	U	0.531	0.531	2								
Petroleum Hydrocarbons																																															
Total Extractable Petroleum Hydrocarbons	TEPH	500		500		mg/kg	NA				NA				ND	U	39.7	39.7	1	ND	U	41.3	41.3	1	56.3		48.8	48.8	1	ND	U	45.6	45.6	1	ND	U	41.7	41.7	1								
Pesticides																																															
4,4'-DDD	72-54-8	1.8	*	0.003	*	mg/kg	ND	U	0.00287	0.00287	5	ND	U	0.00279	0.00279	5	ND	U	0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5	
4,4'-DDE	72-55-9	1.8	*	0.003	*	mg/kg	ND	U	0.00287	0.00287	5	ND	U	0.00279	0.00279	5	ND	U	0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5	
4,4'-DDT	50-29-3	1.8	*	0.003	*	mg/kg			0.00663	0.00287	0.00287	5	0.0115		0.00279	0.00279	5	0.00766		0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5
Aldrin	309-00-2	0.04	*	0.002	*	mg/kg	ND	U	0.00287	0.00287	5	ND	U	0.00279	0.00279	5	ND	U	0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5	
Alpha BHC (Alpha Hexachlorocyclohexane)	319-84-6	0.34	*	0.002	*	mg/kg	ND	U	0.00287	0.00287	5	ND	U	0.00279	0.00279	5	ND	U	0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5	
Beta Bhc (Beta Hexachlorocyclohexane)	319-85-7	0.34	*	0.002	*	mg/kg	ND	U	0.00287	0.00287	5	ND	U	0.00279	0.00279	5	ND	U	0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5	
Delta Bhc (Delta Hexachlorocyclohexane)	319-86-8	0.34	*	0.002	*	mg/kg	ND	U	0.00287	0.00287	5	ND	U	0.00279	0.00279	5	ND	U	0.00288	0.00288	5	ND	U	0.00251	0.00251	5	ND	U	0.00264	0.00264	5	ND	U	0.00315	0.00315	5	ND	U	0.00279	0.00279	5	ND	U	0.00267	0.00267	5	
Metals																																															
Antimony	7440-36-0	27	NS			mg/kg	ND	U	2.92	2.92	1	ND	U	2.86	2.86	1	3.44		2.91	2.91	1	2.88		2.63	2.63	1	3.12		2.76	2.76	1	ND	U	3.23	3.23	1	ND	U	2.91	2.91	1	3.38		2.73	2.73	1	
Barium	7440-39-3	4700	NS			mg/kg	73.7		2.92	2.92	1	85.8		2.86	2.86	1	101		2.91	2.91	1	83.9		2.63	2.63	1	79.4		2.76	2.76</																	

Table 1
Summary of Topsoil and Test Pit Soil Analytical Results
Project No. 140239101 - Derynoski Elementary School, 240 Main St, Southington, CT

Notes:

Soil results were compared to the CT DEEP RSRs (August 2017), CTDEEP APS (September 2018)
CT DEEP - Connecticut Department of Energy and Environmental Protection
RSRs - Remediation Standard Regulations
APS - Additional Polluting Substance
* - APS
CAS - Chemical Abstract Service
NS - No standard
mg/kg - Milligrams per kilogram
ND - Not detected
Q - Qualifier
MDL - Method detection limit
RL - Reporting Limit
DF - Dilution factor

Blue - This substance was not detected in one or more samples above the MDL, but the MDL exceeded an applicable criteria. As noted below, values in italicizes indicate where the MDL value exceeded an applicable criteria.

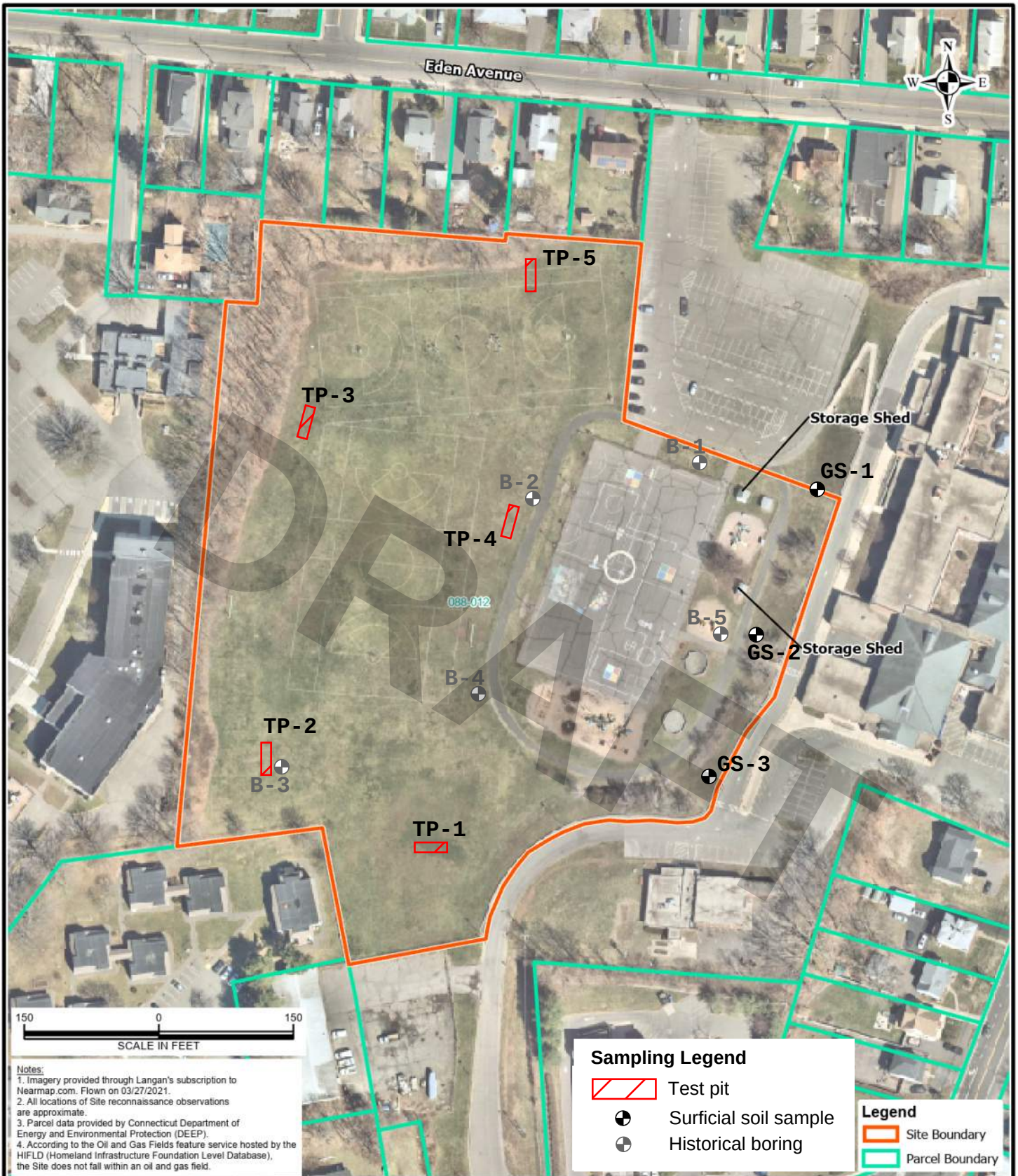
* - For those compounds that do not have certain criteria established within the CTDEEP RSRs, effective 30 January 1996 and 27 June 2013, additional polluting substance criteria must be requested for approval by the CTDEEP. The data was compared to the criteria listed in the 10 December 2015 (Revised 12 October 2018) Technical Support Document: Recommended Numeric Criteria for Common Additional Polluting Substances and Certain Alternative Criteria.

Qualifiers:

R – The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample
J – The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample
UJ – The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise
U – The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination

Exceedance Summary:

- 10 - Result exceeds CT DEEP RSRs - Direct Exposure Criteria for Soil - Residential Criteria
- 10 - Result exceeds CT DEEP RSRs - Pollutant Mobility Criteria for Soil - GA/GAA
- 10 - MDL exceeds screening level



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Long Wharf Maritime Center, 555 Long
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www.langan.com

Project

**240 MAIN
STREET**

SOUTHTONING

HARTFORD COUNTY

CT

Drawing Title

**SURFICIAL SOIL
SAMPLING AND
TEST PIT
LOCATIONS MAP**

Project No.

140239101

Date

10/25/2021

Scale

1" = 150 feet

Drawn By

LDB/WAA

Figure

1

LOG OF TEST PIT TP-1

Sheet 1 of 2

PROJECT NAME Southington Elementary Schools	PROJECT NUMBER 140239101	DATE 10/13/2021 8:35:00 AM
LOCATION 240 Main St	ELEVATION	
EXCAVATION CONTRACTOR Town of Southington Public Works	DEPTH 15 ft	WATER LEVEL - First 15 ft 
EQUIPMENT John Deere 410G Excavator	FOREMAN Brandon, Town Highway Dept.	LANGAN PERSONNEL William Adsit

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		Topsoil (moist)	0			Started excavating at 10/13/2021 8:35 AM.
		Dark brownish red silty fine-coarse SAND, trace organics, trace cobble, trace gravel (moist)	1			
			2			
			3			
			4	TP-1_10:13:2021 (0-4)	GRAB	9:40 AM - Collect grab sample at 0-4 ft bgs.
		Dark brownish red medium-coarse SAND, some cobble, some gravel (moist)[FILL]	5			
			6			
			7			
			8			Platy horizon visible at 4 ft bgs to 15 ft bgs.
			9			
			10			
			11			
			12			Ceased excavation at 15 ft due to excavator arm depth limit. Test pit backfilled with excavated material in 1-2 foot lifts and compacted with excavator bucket.
			13			
			14			
			15			

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LOG OF TEST PIT TP-1

Sheet 2 of 2

PROJECT NAME Southington Elementary Schools		PROJECT NUMBER 140239101		DATE 10/13/2021 8:35:00 AM	
LOCATION 240 Main St		ELEVATION			
EXCAVATION CONTRACTOR Town of Southington Public Works		DEPTH 15 ft		WATER LEVEL - First 15 ft 	
EQUIPMENT John Deere 410G Excavator		FOREMAN Brandon, Town Highway Dept.		LANGAN PERSONNEL William Adsit	

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		Bottom of test pit.	15			
			16			
			17			
			18			
			19			
			20			
			21			
			22			
			23			
			24			
			25			
			26			
			27			
			28			
			29			
			30			

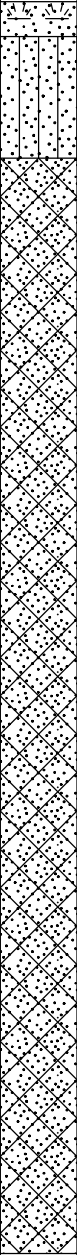
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LANGAN

LOG OF TEST PIT TP-2

Sheet 1 of 1

PROJECT NAME Southington Elementary Schools	PROJECT NUMBER 140239101	DATE 10/13/2021 10:09:00 AM
LOCATION 240 Main St	ELEVATION	
EXCAVATION CONTRACTOR Town of Southington Public Works	DEPTH 12 ft	WATER LEVEL - First ▽
EQUIPMENT John Deere 410G Excavator	FOREMAN Brandon, Town Highway Dept.	LANGAN PERSONNEL William Adsit

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		Topsoil (moist)	0			Started excavating at 10/13/2021 10:09 AM.
		Dark brownish gray to reddish brown silty fine-coarse SAND, some f-c gravel, trace cobble (moist)	1			
		Dark brownish gray to brown silty fine-coarse SAND, some f-c gravel, trace cobble (wet) [FILL]	2			
			3			
			4			
			5			
			6			Platey horizon at 1.5 ft bgs to 12 ft bgs.
			7			Perched water at north end of test pit at 6 ft bgs.
			8			
			9			
			10			
			11			11:05AM - Collect grab sample at 10-12 ft bgs.
		Bottom of test pit.	12			
			13			
			14			
			15			

TP-2_10.13.2021 (10-12)

GRAB

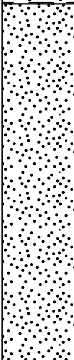
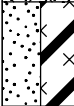
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LOG OF TEST PIT TP-3

Sheet 1 of 1

PROJECT NAME Southington Elementary Schools	PROJECT NUMBER 140239101	DATE 10/13/2021 11:26:00 AM
LOCATION 240 Main St	ELEVATION	
EXCAVATION CONTRACTOR Town of Southington Public Works	DEPTH 11 ft	WATER LEVEL - First 10 ft 
EQUIPMENT John Deere 410G Excavator	FOREMAN Brandon, Town Highway Dept.	LANGAN PERSONNEL William Adsit

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		Topsoil (moist)	0			Started excavating at 10/13/2021 11:26 AM.
		Brownish red fine-medium SAND, trace cobble, trace silt, trace fine gravel, trace organics (moist)	1			
			2			
			3			
		Dark brownish red to dark brownish fine-medium SAND, trace cobble, trace f-m gravel, trace wood fragments (moist)[FILL]	4			Horizon with minor platy compaction at 4ft to 10ft bgs.
			5			
			6			
			7			
			8			Soil wet at 8 ft bgs.
			9			
		Dark brownish red to dark brownish black fine-medium SAND, trace cobble, trace clay, trace f-m gravel, some wood fragments (wet)[FILL]	10			Possible old pipe or wire at 10-11 ft bgs. 12:10 PM - Collect grab sample from 10-11 ft bgs.
			11			
		Bottom of test pit.	12			Ceased excavation at 11 ft because of collapsing. Test pit backfilled with excavated material in 1-2 foot lifts and compacted with excavator bucket.
			13			
			14			
			15			

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LOG OF TEST PIT TP-4

Sheet 1 of 1

PROJECT NAME Southington Elementary Schools	PROJECT NUMBER 140239101	DATE 10/13/2021 12:45:00 PM
LOCATION 240 Main St	ELEVATION	
EXCAVATION CONTRACTOR Town of Southington Public Works	DEPTH 6 ft	WATER LEVEL - First  WATER LEVEL - Completion
EQUIPMENT John Deere 410G Excavator	FOREMAN Brandon, Town Highway Dept.	LANGAN PERSONNEL William Adsit

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		Topsoil (moist)	0			Started excavating at 10/13/2021 12:45 PM.
		Brownish red fine-medium SAND, some silt, trace cobble, trace gravel (moist)[FILL]	1			
			2			
			3			Platy horizon visible at approximately 8 inches bgs to 5.5 ft bgs.
			4			
			5			
		Dark grayish reddish brown silty SAND, trace wood, trace clay, trace organics (moist)	6	TP-4 10.13.2021 (5-6)	GRAB	1:25 PM - Collect grab sample from 5-6 ft bgs. Roots, twigs and sticks at 5.5-6 ft bgs.
		Bottom of test pit.	7			Ceased excavation at 6 ft bgs because apparent terminus of fill encountered. Test pit backfilled with excavated material in 1-2 foot lifts and compacted with excavator bucket.
			8			
			9			
			10			
			11			
			12			
			13			
			14			
			15			

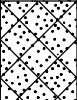
LANGAN

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LOG OF TEST PIT TP-5

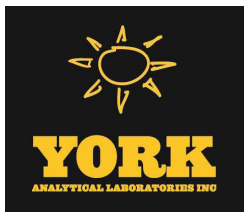
Sheet 1 of 1

PROJECT NAME Southington Elementary Schools	PROJECT NUMBER 140239101	DATE 10/13/2021 1:49:00 PM
LOCATION 240 Main St	ELEVATION	
EXCAVATION CONTRACTOR Town of Southington Public Works	DEPTH 11 ft	WATER LEVEL - First ▽
EQUIPMENT John Deere 410G Excavator	FOREMAN Brandon, Town Highway Dept.	LANGAN PERSONNEL William Adsit

Symbol	ELEV (feet)	DESCRIPTION	Depth Scale	SAMPLE		REMARKS
				Number	Type	
		Topsoil (moist)	0			Started excavating at 10/13/2021 1:49 PM.
		Dark brownish red fine-medium SAND, some cobble, some f-c gravel, trace organics (moist)[FILL]	1	TP-5 10.13.2021 (1-2)	GRAB	2:30 PM - Collect grab sample from 1-2 ft bgs.
		Dark brownish red sandy COBBLES and fine-medium SAND, some f-c gravel (moist)[COBBLES]	2			
			3			
			4			
			5			
			6			
			7			
			8			
			9			
			10			
		Bottom of test pit.	11			Ceased excavation at 11 ft bgs due to refusal from cobble and boulders, and unsafe conditions from collapsing excavation. Test pit backfilled with excavated material in 1-2 foot lifts and compacted with excavator bucket.
			12			
			13			
			14			
			15			

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Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)

Long Wharf Maritime Center, 555 Long Wharf Drive

New Haven CT, 06511-6107

Attention: William Adsit

Report Date: 11/08/2021

Client Project ID: 140239101

York Project (SDG) No.: 21J0624

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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ClientServices@yorklab.com

Report Date: 11/08/2021
Client Project ID: 140239101
York Project (SDG) No.: 21J0624

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511-6107
Attention: William Adsit

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on October 13, 2021 and listed below. The project was identified as your project: **140239101**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21J0624-01	TP-1_10.13.2021 (0-4)	Soil	10/13/2021	10/13/2021
21J0624-02	TP-2_10.13.2021 (10-12)	Soil	10/13/2021	10/13/2021
21J0624-03	TP-3_10.13.2021 (10-11)	Soil	10/13/2021	10/13/2021
21J0624-04	TP-4_10.13.2021 (5-6)	Soil	10/13/2021	10/13/2021
21J0624-05	TP-5_10.13.2021 (1-2)	Soil	10/13/2021	10/13/2021
21J0624-06	GS-1_10.13.2021	Soil	10/13/2021	10/13/2021
21J0624-07	GS-2_10.13.2021	Soil	10/13/2021	10/13/2021
21J0624-08	GS-3_10.13.2021	Soil	10/13/2021	10/13/2021
21J0624-09	Trip Blanks	Water	10/13/2021	10/13/2021

General Notes for York Project (SDG) No.: 21J0624

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 11/08/2021

Cassie L Mosher
Laboratory Manager



DRAFT



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 9:40 am

Date Received

10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
78-93-3	2-Butanone	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
591-78-6	2-Hexanone	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
67-64-1	Acetone	ND		ug/kg dry	10	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
107-13-1	Acrylonitrile	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
71-43-2	Benzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
108-86-1	Bromobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
74-97-5	Bromochloromethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-25-2	Bromoform	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
74-83-9	Bromomethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-15-0	Carbon disulfide	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 9:40 am

Date Received
10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-00-3	Chloroethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
67-66-3	Chloroform	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
74-87-3	Chloromethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
74-95-3	Dibromomethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-09-2	Methylene chloride	11	B	ug/kg dry	10	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
91-20-3	Naphthalene	ND		ug/kg dry	10	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
95-47-6	o-Xylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	10	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
100-42-5	Styrene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
109-99-9	Tetrahydrofuran	ND		ug/kg dry	10	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
108-88-3	Toluene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
79-01-6	Trichloroethylene	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:07	OC
Surrogate Recoveries		Result	Acceptance Range							
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	102 %	70-130							
2037-26-5	Surrogate: SURRE: Toluene-d8	99.1 %	70-130							
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	101 %	70-130							



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 9:40 am

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
83-32-9	Acenaphthene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
62-53-3	Aniline	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
120-12-7	Anthracene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 9:40 am

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
86-74-8	Carbazole	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
218-01-9	Chrysene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
206-44-0	Fluoranthene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
86-73-7	Fluorene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1020	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
78-59-1	Isophorone	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
91-20-3	Naphthalene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
85-01-8	Phenanthrene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
108-95-2	Phenol	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
129-00-0	Pyrene	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
110-86-1	Pyridine	ND		ug/kg dry	511	2	EPA 8270D	10/18/2021 12:56	10/19/2021 20:32	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	83.3 %	30-130							
4165-62-2	Surrogate: SURR: Phenol-d5	79.1 %	30-130							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	92.0 %	30-130							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	76.8 %	30-130							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	91.0 %	30-130							
1718-51-0	Surrogate: SURR: Terphenyl-d14	84.6 %	30-130							



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 9:40 am

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0334	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
72-20-8	Endrin	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00251	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0125	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.127	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:21	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	81.6 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	107 %	30-150							

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.
21J0624

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Matrix
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Collection Date/Time
October 13, 2021 9:40 am

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Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	Total PCBs	ND		mg/kg dry	0.0253	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:07	BJ
	Surrogate Recoveries	Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	87.0 %			30-150					
2051-24-3	Surrogate: Decachlorobiphenyl	55.5 %			30-150					

Herbicides, CT RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0210	1	EPA 8151A	10/20/2021 06:41	10/20/2021 19:52	BJ
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0210	1	EPA 8151A	10/20/2021 06:41	10/20/2021 19:52	BJ
94-75-7	2,4-D	ND		mg/kg dry	0.0210	1	EPA 8151A	10/20/2021 06:41	10/20/2021 19:52	BJ
75-99-0	Dalapon	ND		mg/kg dry	0.0210	1	EPA 8151A	10/20/2021 06:41	10/20/2021 19:52	BJ
1918-00-9	Dicamba	ND		mg/kg dry	0.0210	1	EPA 8151A	10/20/2021 06:41	10/20/2021 19:52	BJ
	Surrogate Recoveries	Result			Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	79.8 %			21-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	39.7	1	CT DEP ETPH	10/19/2021 13:10	10/20/2021 16:24	SK
	Surrogate Recoveries	Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	80.3 %			50-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	2.88		mg/kg dry	2.63	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.58	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-39-3	Barium	83.9		mg/kg dry	2.63	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.053	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.316	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-47-3	Chromium	16.2		mg/kg dry	0.526	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-50-8	Copper	14.4		mg/kg dry	2.11	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7439-92-1	Lead	4.31		mg/kg dry	0.526	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-02-0	Nickel	13.4		mg/kg dry	1.05	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM



Sample Information

Client Sample ID: TP-1_10.13.2021 (0-4)

York Sample ID: 21J0624-01

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 9:40 am

Date Received
10/13/2021

Metals, CTDEP RCP

Sample Prepared by Method: EPA 3050B

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.63	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-22-4	Silver	ND		mg/kg dry	0.526	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-28-0	Thallium	ND		mg/kg dry	2.63	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-62-2	Vanadium	33.2		mg/kg dry	1.05	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM
7440-66-6	Zinc	30.2		mg/kg dry	2.63	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:27	EM

Mercury by 7473

Sample Prepared by Method: EPA 7473 soil

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0316	1	EPA 7473	10/21/2021 12:40	10/21/2021 13:58	BR

Chromium, Hexavalent

Sample Prepared by Method: EPA SW846-3060

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.526	1	EPA 7196A	10/14/2021 14:31	10/14/2021 22:04	ZTS

Cyanide, Total

Sample Prepared by Method: Analysis Preparation Soil

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.526	1	EPA 9014/9010C	10/19/2021 08:45	10/19/2021 14:33	JAMT

pH

Sample Prepared by Method: Analysis Preparation

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	6.24		pH units	0.500	1	EPA 9045D	10/18/2021 14:19	10/18/2021 22:52	ZTS

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Sample Prepared by Method: Analysis Preparation

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	ORP (Oxidation-Reduction Potential) (Ag/AgCl)	350		mV	-200	1	ASTM 1498-08 M	10/18/2021 18:41	10/18/2021 22:56	ZTS

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes:

Sample Notes:

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	95.0		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 11:05 am

Date Received

10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
78-93-3	2-Butanone	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
591-78-6	2-Hexanone	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
67-64-1	Acetone	ND		ug/kg dry	8.2	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
107-13-1	Acrylonitrile	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
71-43-2	Benzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
108-86-1	Bromobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
74-97-5	Bromochloromethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-25-2	Bromoform	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
74-83-9	Bromomethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-15-0	Carbon disulfide	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
108-90-7	Chlorobenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 11:05 am

Date Received
10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
67-66-3	Chloroform	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
74-87-3	Chloromethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
74-95-3	Dibromomethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-09-2	Methylene chloride	ND		ug/kg dry	8.2	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
91-20-3	Naphthalene	ND		ug/kg dry	8.2	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
95-47-6	o-Xylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	8.2	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
100-42-5	Styrene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
109-99-9	Tetrahydrofuran	ND		ug/kg dry	8.2	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
108-88-3	Toluene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
79-01-6	Trichloroethylene	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC
75-01-4	Vinyl Chloride	ND		ug/kg dry	4.1	1	EPA 8260C	10/15/2021 12:30	10/16/2021 00:35	OC

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	70-130
2037-26-5	Surrogate: SURR: Toluene-d8	98.0 %	70-130
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %	70-130



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 11:05 am

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
83-32-9	Acenaphthene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
62-53-3	Aniline	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
120-12-7	Anthracene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 11:05 am

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
86-74-8	Carbazole	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
218-01-9	Chrysene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
206-44-0	Fluoranthene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
86-73-7	Fluorene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1080	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
78-59-1	Isophorone	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
91-20-3	Naphthalene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
85-01-8	Phenanthrene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
108-95-2	Phenol	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
129-00-0	Pyrene	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
110-86-1	Pyridine	ND		ug/kg dry	539	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:04	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	74.7 %	30-130							
4165-62-2	Surrogate: SURR: Phenol-d5	71.4 %	30-130							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	82.0 %	30-130							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.3 %	30-130							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	82.2 %	30-130							
1718-51-0	Surrogate: SURR: Terphenyl-d14	71.8 %	30-130							



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 11:05 am

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0352	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
72-20-8	Endrin	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00264	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0132	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.133	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:38	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	66.2 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	74.9 %	30-150							

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 11:05 am

Date Received
10/13/2021

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	Total PCBs	ND		mg/kg dry	0.0267	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:21	BJ
	Surrogate Recoveries	Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	70.0 %			30-150					
2051-24-3	Surrogate: Decachlorobiphenyl	48.0 %			30-150					

Herbicides, CT RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0220	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:03	BJ
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0220	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:03	BJ
94-75-7	2,4-D	ND		mg/kg dry	0.0220	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:03	BJ
75-99-0	Dalapon	ND		mg/kg dry	0.0220	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:03	BJ
1918-00-9	Dicamba	ND		mg/kg dry	0.0220	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:03	BJ
	Surrogate Recoveries	Result			Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	74.0 %			21-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	41.3	1	CT DEP ETPH	10/19/2021 13:10	10/20/2021 17:02	SK
	Surrogate Recoveries	Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	87.0 %			50-150					

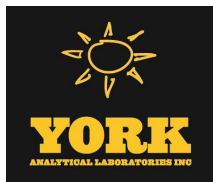
Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	3.12		mg/kg dry	2.76	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.66	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-39-3	Barium	79.4		mg/kg dry	2.76	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.332	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-47-3	Chromium	19.2		mg/kg dry	0.553	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-50-8	Copper	9.41		mg/kg dry	2.21	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7439-92-1	Lead	7.09		mg/kg dry	0.553	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-02-0	Nickel	14.5		mg/kg dry	1.11	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM



Sample Information

Client Sample ID: TP-2_10.13.2021 (10-12)

York Sample ID: 21J0624-02

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 11:05 am

Date Received

10/13/2021

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.76	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-22-4	Silver	ND		mg/kg dry	0.553	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-28-0	Thallium	ND		mg/kg dry	2.76	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-62-2	Vanadium	28.7		mg/kg dry	1.11	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM
7440-66-6	Zinc	29.4		mg/kg dry	2.76	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:29	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0332	1	EPA 7473	10/21/2021 12:40	10/21/2021 14:36	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.553	1	EPA 7196A	10/14/2021 14:31	10/14/2021 22:04	ZTS

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.553	1	EPA 9014/9010C	10/19/2021 08:45	10/19/2021 14:33	JAMT

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	6.34		pH units	0.500	1	EPA 9045D	10/18/2021 14:19	10/18/2021 22:52	ZTS

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	ORP (Oxidation-Reduction Potential) (Ag/AgCl)	360		mV	-200	1	ASTM 1498-08 M	10/18/2021 18:41	10/18/2021 22:56	ZTS

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	90.5		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 12:10 pm

Date Received

10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
78-93-3	2-Butanone	7.1		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
591-78-6	2-Hexanone	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
67-64-1	Acetone	27		ug/kg dry	9.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
107-13-1	Acrylonitrile	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
71-43-2	Benzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
108-86-1	Bromobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
74-97-5	Bromochloromethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-25-2	Bromoform	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
74-83-9	Bromomethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-15-0	Carbon disulfide	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
108-90-7	Chlorobenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 12:10 pm

Date Received

10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
67-66-3	Chloroform	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
74-87-3	Chloromethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
74-95-3	Dibromomethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-09-2	Methylene chloride	ND		ug/kg dry	9.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
91-20-3	Naphthalene	ND		ug/kg dry	9.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
95-47-6	o-Xylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	9.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
100-42-5	Styrene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
109-99-9	Tetrahydrofuran	ND		ug/kg dry	9.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
108-88-3	Toluene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
79-01-6	Trichloroethylene	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC
75-01-4	Vinyl Chloride	ND		ug/kg dry	4.5	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:02	OC

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	70-130
2037-26-5	Surrogate: SURR: Toluene-d8	100 %	70-130
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	105 %	70-130



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 12:10 pm

Date Received

10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
83-32-9	Acenaphthene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
62-53-3	Aniline	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
120-12-7	Anthracene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 12:10 pm

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
86-74-8	Carbazole	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
218-01-9	Chrysene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
206-44-0	Fluoranthene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
86-73-7	Fluorene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1290	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
78-59-1	Isophorone	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
91-20-3	Naphthalene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
85-01-8	Phenanthrene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
108-95-2	Phenol	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
129-00-0	Pyrene	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
110-86-1	Pyridine	ND		ug/kg dry	643	2	EPA 8270D	10/18/2021 12:56	10/19/2021 21:36	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	69.5 %	30-130							
4165-62-2	Surrogate: SURR: Phenol-d5	69.0 %	30-130							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	80.3 %	30-130							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	66.0 %	30-130							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	78.5 %	30-130							
1718-51-0	Surrogate: SURR: Terphenyl-d14	69.8 %	30-130							



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 12:10 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0420	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
72-20-8	Endrin	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00315	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0158	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.159	5	EPA 8081B	10/19/2021 08:06	10/20/2021 16:55	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	41.2 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	36.6 %	30-150							

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 12:10 pm

Date Received
10/13/2021

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	Total PCBs	ND		mg/kg dry	0.0318	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:34	BJ
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	32.0 %			30-150					
2051-24-3	Surrogate: Decachlorobiphenyl	31.0 %			30-150					

Herbicides, CT RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0256	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:14	BJ
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0256	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:14	BJ
94-75-7	2,4-D	ND		mg/kg dry	0.0256	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:14	BJ
75-99-0	Dalapon	ND		mg/kg dry	0.0256	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:14	BJ
1918-00-9	Dicamba	ND		mg/kg dry	0.0256	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:14	BJ
Surrogate Recoveries		Result		Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	93.2 %			21-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	56.3		mg/kg dry	48.8	1	CT DEP ETPH	10/18/2021 12:59	10/19/2021 03:40	SK
Surrogate Recoveries		Result		Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	65.0 %			50-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	3.23	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.94	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-39-3	Barium	126		mg/kg dry	3.23	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.065	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-43-9	Cadmium	0.407		mg/kg dry	0.388	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-47-3	Chromium	17.7		mg/kg dry	0.646	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-50-8	Copper	13.5		mg/kg dry	2.59	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7439-92-1	Lead	23.8		mg/kg dry	0.646	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-02-0	Nickel	14.8		mg/kg dry	1.29	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM



Sample Information

Client Sample ID: TP-3_10.13.2021 (10-11)

York Sample ID: 21J0624-03

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 12:10 pm

Date Received
10/13/2021

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	3.23	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-22-4	Silver	ND		mg/kg dry	0.646	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-28-0	Thallium	ND		mg/kg dry	3.23	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-62-2	Vanadium	29.7		mg/kg dry	1.29	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM
7440-66-6	Zinc	59.7		mg/kg dry	3.23	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:31	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0388	1	EPA 7473	10/21/2021 12:40	10/21/2021 14:43	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.646	1	EPA 7196A	10/18/2021 08:43	10/18/2021 17:28	JAMT

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.646	1	EPA 9014/9010C	10/19/2021 08:45	10/19/2021 14:33	JAMT

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	6.28		pH units	0.500	1	EPA 9045D	10/18/2021 14:19	10/18/2021 22:52	ZTS

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	ORP (Oxidation-Reduction Potential) (Ag/AgCl)	380		mV	-200	1	ASTM 1498-08 M	10/18/2021 18:41	10/18/2021 22:56	ZTS

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	77.4		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 1:25 pm

Date Received
10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
78-93-3	2-Butanone	10		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
591-78-6	2-Hexanone	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
67-64-1	Acetone	39		ug/kg dry	9.9	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
107-13-1	Acrylonitrile	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
71-43-2	Benzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
108-86-1	Bromobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
74-97-5	Bromochloromethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-25-2	Bromoform	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
74-83-9	Bromomethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-15-0	Carbon disulfide	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
108-90-7	Chlorobenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 1:25 pm

Date Received

10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
67-66-3	Chloroform	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
74-87-3	Chloromethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
74-95-3	Dibromomethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-09-2	Methylene chloride	15	B	ug/kg dry	9.9	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
91-20-3	Naphthalene	ND		ug/kg dry	9.9	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
95-47-6	o-Xylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	9.9	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
100-42-5	Styrene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
109-99-9	Tetrahydrofuran	ND		ug/kg dry	9.9	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
108-88-3	Toluene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
79-01-6	Trichloroethylene	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.0	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:30	OC

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %	70-130
2037-26-5	Surrogate: SURR: Toluene-d8	99.5 %	70-130
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	102 %	70-130



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 1:25 pm

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
83-32-9	Acenaphthene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
62-53-3	Aniline	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
120-12-7	Anthracene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 1:25 pm

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
86-74-8	Carbazole	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
218-01-9	Chrysene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
206-44-0	Fluoranthene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
86-73-7	Fluorene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1150	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
78-59-1	Isophorone	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
91-20-3	Naphthalene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
85-01-8	Phenanthrene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
108-95-2	Phenol	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
129-00-0	Pyrene	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
110-86-1	Pyridine	ND		ug/kg dry	576	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:08	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	78.5 %	30-130							
4165-62-2	Surrogate: SURR: Phenol-d5	77.6 %	30-130							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	92.0 %	30-130							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	75.9 %	30-130							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	94.9 %	30-130							
1718-51-0	Surrogate: SURR: Terphenyl-d14	81.2 %	30-130							



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 1:25 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0372	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
72-20-8	Endrin	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0140	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.141	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:12	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	52.9 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	59.1 %	30-150							

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 1:25 pm

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Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	Total PCBs	ND		mg/kg dry	0.0282	1	EPA 8082A	10/19/2021 08:06	10/20/2021 13:48	BJ
	Surrogate Recoveries	Result			Acceptance Range					
877-09-8	Surrogate: Tetrachloro-m-xylene	56.0 %			30-150					
2051-24-3	Surrogate: Decachlorobiphenyl	40.5 %			30-150					

Herbicides, CT RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0232	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:25	BJ
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0232	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:25	BJ
94-75-7	2,4-D	ND		mg/kg dry	0.0232	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:25	BJ
75-99-0	Dalapon	ND		mg/kg dry	0.0232	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:25	BJ
1918-00-9	Dicamba	ND		mg/kg dry	0.0232	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:25	BJ
	Surrogate Recoveries	Result			Acceptance Range					
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	81.4 %			21-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	45.6	1	CT DEP ETPH	10/18/2021 12:59	10/19/2021 04:18	SK
	Surrogate Recoveries	Result			Acceptance Range					
3386-33-2	Surrogate: 1-Chlorooctadecane	77.7 %			50-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.74	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-39-3	Barium	75.4		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.349	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-47-3	Chromium	18.0		mg/kg dry	0.581	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-50-8	Copper	13.1		mg/kg dry	2.33	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7439-92-1	Lead	38.3		mg/kg dry	0.581	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-02-0	Nickel	12.4		mg/kg dry	1.16	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM



Sample Information

Client Sample ID: TP-4_10.13.2021 (5-6)

York Sample ID: 21J0624-04

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 1:25 pm

Date Received
10/13/2021

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-22-4	Silver	ND		mg/kg dry	0.581	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-62-2	Vanadium	32.9		mg/kg dry	1.16	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM
7440-66-6	Zinc	55.9		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:34	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0673		mg/kg dry	0.0349	1	EPA 7473	10/21/2021 12:40	10/21/2021 14:52	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.581	1	EPA 7196A	10/18/2021 08:43	10/18/2021 17:28	JAMT

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.581	1	EPA 9014/9010C	10/19/2021 08:45	10/19/2021 14:33	JAMT

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	6.23		pH units	0.500	1	EPA 9045D	10/18/2021 14:19	10/18/2021 22:52	ZTS

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	ORP (Oxidation-Reduction Potential) (Ag/AgCl)	380		mV	-200	1	ASTM 1498-08 M	10/18/2021 18:41	10/18/2021 22:56	ZTS

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	86.0		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 2:30 pm

Date Received
10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
78-93-3	2-Butanone	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
95-49-8	2-Chlorotoluene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
591-78-6	2-Hexanone	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
106-43-4	4-Chlorotoluene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
67-64-1	Acetone	ND		ug/kg dry	9.4	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
107-13-1	Acrylonitrile	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
71-43-2	Benzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
108-86-1	Bromobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
74-97-5	Bromochloromethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-27-4	Bromodichloromethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-25-2	Bromoform	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
74-83-9	Bromomethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-15-0	Carbon disulfide	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
56-23-5	Carbon tetrachloride	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
108-90-7	Chlorobenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 2:30 pm

Date Received

10/13/2021

Volatiles, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
67-66-3	Chloroform	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
74-87-3	Chloromethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
124-48-1	Dibromochloromethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
74-95-3	Dibromomethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
80-62-6	Methyl Methacrylate	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-09-2	Methylene chloride	16	B	ug/kg dry	9.4	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
91-20-3	Naphthalene	ND		ug/kg dry	9.4	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
95-47-6	o-Xylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	9.4	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
100-42-5	Styrene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
127-18-4	Tetrachloroethylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
109-99-9	Tetrahydrofuran	ND		ug/kg dry	9.4	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
108-88-3	Toluene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
79-01-6	Trichloroethylene	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC
75-01-4	Vinyl Chloride	ND		ug/kg dry	4.7	1	EPA 8260C	10/15/2021 12:30	10/16/2021 01:57	OC

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	99.9 %	70-130
2037-26-5	Surrogate: SURR: Toluene-d8	99.9 %	70-130
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	101 %	70-130



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 2:30 pm

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
90-12-0	1-Methylnaphthalene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
83-32-9	Acenaphthene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
62-53-3	Aniline	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
120-12-7	Anthracene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 2:30 pm

Date Received
10/13/2021

Semi-Volatiles, CT RCP BNA List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
86-74-8	Carbazole	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
218-01-9	Chrysene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
206-44-0	Fluoranthene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
86-73-7	Fluorene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1060	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
78-59-1	Isophorone	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
91-20-3	Naphthalene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
82-68-8	Pentachloronitrobenzene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
85-01-8	Phenanthrene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
108-95-2	Phenol	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
129-00-0	Pyrene	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
110-86-1	Pyridine	ND		ug/kg dry	531	2	EPA 8270D	10/18/2021 12:56	10/19/2021 22:40	KH
Surrogate Recoveries		Result	Acceptance Range							
367-12-4	Surrogate: SURR: 2-Fluorophenol	81.4 %	30-130							
4165-62-2	Surrogate: SURR: Phenol-d5	79.5 %	30-130							
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	90.6 %	30-130							
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	71.4 %	30-130							
118-79-6	Surrogate: SURR: 2,4,6-Tribromophenol	92.8 %	30-130							
1718-51-0	Surrogate: SURR: Terphenyl-d14	82.2 %	30-130							



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 2:30 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
50-29-3	4,4'-DDT	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0355	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
72-20-8	Endrin	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00267	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0133	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.135	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:28	CM
Surrogate Recoveries		Result	Acceptance Range							
2051-24-3	Surrogate: Decachlorobiphenyl	73.7 %	30-150							
877-09-8	Surrogate: Tetrachloro-m-xylene	76.5 %	30-150							

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
37324-23-5	Aroclor 1262	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
11100-14-4	Aroclor 1268	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 2:30 pm

Date Received
10/13/2021

Polychlorinated Biphenyls(PCB RCP)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1336-36-3	Total PCBs	ND		mg/kg dry	0.0269	1	EPA 8082A	10/19/2021 08:06	10/20/2021 14:02	BJ
Surrogate Recoveries		Result		Acceptance Range						
877-09-8	Surrogate: Tetrachloro-m-xylene	79.5 %			30-150					
2051-24-3	Surrogate: Decachlorobiphenyl	50.5 %			30-150					

Herbicides, CT RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C/8151A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		mg/kg dry	0.0217	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:36	BJ
93-72-1	2,4,5-TP (Silvex)	ND		mg/kg dry	0.0217	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:36	BJ
94-75-7	2,4-D	ND		mg/kg dry	0.0217	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:36	BJ
75-99-0	Dalapon	ND		mg/kg dry	0.0217	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:36	BJ
1918-00-9	Dicamba	ND		mg/kg dry	0.0217	1	EPA 8151A	10/20/2021 06:41	10/20/2021 20:36	BJ
Surrogate Recoveries		Result		Acceptance Range						
19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D	90.8 %			21-150					

Extractable Total Petroleum Hydrocarbons (ETPH)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	41.7	1	CT DEP ETPH	10/18/2021 12:59	10/19/2021 05:34	SK
Surrogate Recoveries		Result		Acceptance Range						
3386-33-2	Surrogate: 1-Chlorooctadecane	91.1 %			50-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	3.38		mg/kg dry	2.73	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.64	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-39-3	Barium	78.8		mg/kg dry	2.73	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.055	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-43-9	Cadmium	0.340		mg/kg dry	0.328	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-47-3	Chromium	21.2		mg/kg dry	0.547	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-50-8	Copper	16.5		mg/kg dry	2.19	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7439-92-1	Lead	10.0		mg/kg dry	0.547	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-02-0	Nickel	17.1		mg/kg dry	1.09	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM



Sample Information

Client Sample ID: TP-5_10.13.2021 (1-2)

York Sample ID: 21J0624-05

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 2:30 pm

Date Received
10/13/2021

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7782-49-2	Selenium	ND		mg/kg dry	2.73	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-22-4	Silver	ND		mg/kg dry	0.547	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-28-0	Thallium	ND		mg/kg dry	2.73	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-62-2	Vanadium	54.1		mg/kg dry	1.09	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM
7440-66-6	Zinc	38.9		mg/kg dry	2.73	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:36	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0328	1	EPA 7473	10/21/2021 12:40	10/21/2021 15:00	BR

Chromium, Hexavalent

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.547	1	EPA 7196A	10/18/2021 08:43	10/18/2021 17:28	JAMT

Cyanide, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.547	1	EPA 9014/9010C	10/19/2021 08:45	10/19/2021 14:33	JAMT

pH

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	6.14		pH units	0.500	1	EPA 9045D	10/18/2021 14:19	10/18/2021 22:52	ZTS

ORP (Oxidation-Reduction Potential)(Ag/AgCl)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	ORP (Oxidation-Reduction Potential) (Ag/AgCl)	370		mV	-200	1	ASTM 1498-08 M	10/18/2021 18:41	10/18/2021 22:56	ZTS

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	91.5		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR



Sample Information

Client Sample ID: GS-1_10.13.2021

York Sample ID: 21J0624-06

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 3:10 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
50-29-3	4,4'-DDT	0.00663		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0383	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
72-20-8	Endrin	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00287	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0144	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.145	5	EPA 8081B	10/19/2021 08:06	10/20/2021 17:45	CM
Surrogate Recoveries		Result		Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	62.2 %				30-150				
877-09-8	Surrogate: Tetrachloro-m-xylene	44.3 %				30-150				

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	2.92	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.75	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-39-3	Barium	73.7		mg/kg dry	2.92	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-43-9	Cadmium	ND		mg/kg dry	0.350	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-47-3	Chromium	16.8		mg/kg dry	0.583	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-50-8	Copper	17.3		mg/kg dry	2.33	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7439-92-1	Lead	235		mg/kg dry	0.583	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-02-0	Nickel	11.3		mg/kg dry	1.17	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7782-49-2	Selenium	ND		mg/kg dry	2.92	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM

120 RESEARCH DRIVE

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Sample Information

Client Sample ID: GS-1_10.13.2021

York Sample ID: 21J0624-06

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 3:10 pm

Date Received
10/13/2021

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3505B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-22-4	Silver	ND		mg/kg dry	0.583	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-28-0	Thallium	ND		mg/kg dry	2.92	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-62-2	Vanadium	31.4		mg/kg dry	1.17	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM
7440-66-6	Zinc	76.0		mg/kg dry	2.92	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:39	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0551		mg/kg dry	0.0350	1	EPA 7473	10/21/2021 12:40	10/21/2021 15:09	BR

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.7		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR

Sample Information

Client Sample ID: GS-2_10.13.2021

York Sample ID: 21J0624-07

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 3:38 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
50-29-3	4,4'-DDT	0.0115		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0372	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM



Sample Information

Client Sample ID: GS-2_10.13.2021

York Sample ID: 21J0624-07

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 3:38 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
72-20-8	Endrin	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00279	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
72-43-5	Methoxychlor	ND		mg/kg dry	0.0140	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.141	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:02	CM
Surrogate Recoveries		Result		Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	52.1 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	43.7 %			30-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		mg/kg dry	2.86	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.72	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-39-3	Barium	85.8		mg/kg dry	2.86	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.057	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-43-9	Cadmium	0.964		mg/kg dry	0.343	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-47-3	Chromium	16.2		mg/kg dry	0.572	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-50-8	Copper	20.2		mg/kg dry	2.29	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7439-92-1	Lead	378		mg/kg dry	0.572	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-02-0	Nickel	8.09		mg/kg dry	1.14	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7782-49-2	Selenium	ND		mg/kg dry	2.86	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-22-4	Silver	ND		mg/kg dry	0.572	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-28-0	Thallium	ND		mg/kg dry	2.86	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-62-2	Vanadium	34.2		mg/kg dry	1.14	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM
7440-66-6	Zinc	98.5		mg/kg dry	2.86	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:41	EM



Sample Information

Client Sample ID: GS-2_10.13.2021

York Sample ID: 21J0624-07

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 3:38 pm

Date Received

10/13/2021

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0447		mg/kg dry	0.0343	1	EPA 7473	10/21/2021 12:40	10/21/2021 15:18	BR

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.3		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR

Sample Information

Client Sample ID: GS-3_10.13.2021

York Sample ID: 21J0624-08

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Soil

Collection Date/Time

October 13, 2021 4:00 pm

Date Received

10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
72-55-9	4,4'-DDE	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
50-29-3	4,4'-DDT	0.00766		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
15972-60-8	Alachlor	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
309-00-2	Aldrin	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
319-84-6	alpha-BHC	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
319-85-7	beta-BHC	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
57-74-9	Chlordane, total	ND		mg/kg dry	0.0385	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
319-86-8	delta-BHC	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
60-57-1	Dieldrin	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
959-98-8	Endosulfan I	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
33213-65-9	Endosulfan II	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
1031-07-8	Endosulfan sulfate	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
72-20-8	Endrin	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
7421-93-4	Endrin aldehyde	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
53494-70-5	Endrin ketone	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
58-89-9	gamma-BHC (Lindane)	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
76-44-8	Heptachlor	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
1024-57-3	Heptachlor epoxide	ND		mg/kg dry	0.00288	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM



Sample Information

Client Sample ID: GS-3_10.13.2021

York Sample ID: 21J0624-08

York Project (SDG) No.
21J0624

Client Project ID
140239101

Matrix
Soil

Collection Date/Time
October 13, 2021 4:00 pm

Date Received
10/13/2021

Pesticides, CT RCP Target List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		mg/kg dry	0.0144	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
8001-35-2	Toxaphene	ND		mg/kg dry	0.146	5	EPA 8081B	10/19/2021 08:06	10/20/2021 18:19	CM
Surrogate Recoveries		Result		Acceptance Range						
2051-24-3	Surrogate: Decachlorobiphenyl	62.8 %			30-150					
877-09-8	Surrogate: Tetrachloro-m-xylene	47.1 %			30-150					

Metals, CTDEP RCP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	3.44		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-38-2	Arsenic	ND		mg/kg dry	1.75	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-39-3	Barium	101		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-41-7	Beryllium	ND		mg/kg dry	0.058	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-43-9	Cadmium	0.666		mg/kg dry	0.350	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-47-3	Chromium	20.5		mg/kg dry	0.583	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-50-8	Copper	23.9		mg/kg dry	2.33	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7439-92-1	Lead	351		mg/kg dry	0.583	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-02-0	Nickel	15.0		mg/kg dry	1.17	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7782-49-2	Selenium	ND		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-22-4	Silver	ND		mg/kg dry	0.583	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-28-0	Thallium	ND		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-62-2	Vanadium	61.1		mg/kg dry	1.17	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM
7440-66-6	Zinc	97.3		mg/kg dry	2.91	1	EPA 6010D	10/18/2021 21:56	10/21/2021 13:44	EM

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0511		mg/kg dry	0.0350	1	EPA 7473	10/21/2021 12:40	10/21/2021 15:27	BR

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	85.8		%	0.100	1	SM 2540G	10/19/2021 12:58	10/19/2021 17:50	VR



Sample Information

Client Sample ID: Trip Blanks

York Sample ID: 21J0624-09

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Water

Collection Date/Time

October 13, 2021 3:00 pm

Date Received

10/13/2021

Volatile Organics, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-34-3	1,1-Dichloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
106-93-4	1,2-Dibromoethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
107-06-2	1,2-Dichloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
78-87-5	1,2-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
142-28-9	1,3-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
594-20-7	2,2-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
78-93-3	2-Butanone	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
95-49-8	2-Chlorotoluene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
591-78-6	2-Hexanone	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
106-43-4	4-Chlorotoluene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
67-64-1	Acetone	ND		ug/L	2.00	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
107-13-1	Acrylonitrile	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
71-43-2	Benzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
108-86-1	Bromobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
74-97-5	Bromochloromethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-27-4	Bromodichloromethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-25-2	Bromoform	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
74-83-9	Bromomethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-15-0	Carbon disulfide	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
56-23-5	Carbon tetrachloride	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
108-90-7	Chlorobenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD



Sample Information

Client Sample ID: Trip Blanks

York Sample ID: 21J0624-09

York Project (SDG) No.

21J0624

Client Project ID

140239101

Matrix

Water

Collection Date/Time

October 13, 2021 3:00 pm

Date Received

10/13/2021

Volatile Organics, 8260 CT RCP List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	RL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
67-66-3	Chloroform	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
74-87-3	Chloromethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
124-48-1	Dibromochloromethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
74-95-3	Dibromomethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
100-41-4	Ethyl Benzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
98-82-8	Isopropylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
80-62-6	Methyl Methacrylate	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-09-2	Methylene chloride	2.74		ug/L	2.00	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
91-20-3	Naphthalene	ND		ug/L	2.00	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
104-51-8	n-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
103-65-1	n-Propylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
95-47-6	o-Xylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
179601-23-1	p- & m- Xylenes	ND		ug/L	1.00	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
135-98-8	sec-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
100-42-5	Styrene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
98-06-6	tert-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
127-18-4	Tetrachloroethylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
109-99-9	Tetrahydrofuran	ND		ug/L	4.00	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
108-88-3	Toluene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
79-01-6	Trichloroethylene	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-69-4	Trichlorofluoromethane	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD
75-01-4	Vinyl Chloride	ND		ug/L	0.500	1	EPA 8260C	10/15/2021 12:30	10/15/2021 21:07	PD

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	100 %	70-130
2037-26-5	Surrogate: SURR: Toluene-d8	87.8 %	70-130
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	98.3 %	70-130



REASONABLE CONFIDENCE PROTOCOL

LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: York Analytical Laboratories, Inc.

Client: Langan Engineering & Environmental Serv

Project Location: 140239101

Lab Project No.: 21J0624

Laboratory Sample ID(s): 21J0624-01 - 21J0624-09

Sampling Date(s): 10/13/2021 - 10/13/2021

RCP Methods Used: See Narrative and Method Reference Section of this Technical Report

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP RCPs)?	YES
1A	Were the method specified preservation and holding time requirements met?	YES
1B	VPH and EPH Methods only: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	NR
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	YES
3	Were samples received at an appropriate temperature ($\leq$ or $= 6^{\circ}\text{C}$)?	YES
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	NO
5A	Were reporting limits specified or referenced on the chain-of-custody?	YES
5B	Were these reporting limits met?	YES
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	YES
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	YES

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to questions #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:

Position: Laboratory Manager

Printed Name: Cassie L. Mosher

Date: 11/08/2021





York Narrative- CTDEEP RCP Introduction

This Work Order Narrative includes the following items for full review of any quality issues encountered with samples and their analyses for the parameters requested:

1. Sample Receipt Information, including a Sample Summary which cross references your sample ID with York Analytical sample ID, identifying the matrix and Date/Time collected and received at York.
2. Analysis Methodologies employed for the work order
3. Any Sample Issues encountered such as Holding time exceedances, improper containers/preservation, or any related issue with sample integrity
4. Specific Analysis Findings in order: Volatiles, Semi-Volatiles, Pesticides/PCBs, Herbicides, other GC parameters, Metals, Mercury, Wet Chemistry.
5. Analysis Findings Include:
 - BIAS Summary Report-Multiple Lines of Evidence
 - Analyte qualifier summary
 - Samples and associated Calibration Curve(s)
 - Calibration Outliers Discussion/Tabular presentation and affected samples
 - Initial Calibration Verification (ICV) information
 - Batch QC Sample Performance (Blanks, Blank Spikes (BS), MS/MSD)
 - Internal Standard Performance
 - Surrogate Performance
 - Example Calculations

Work Order Narrative

York Analytical Work Order No.: 21J0624

Client : Langan Engineering & Environmental Services (CT)

Client Project ID : 140239101

Prepared for : William Adsit

1.0) Introduction

This work order Narrative applies to the following samples submitted to our laboratory on: 10/13/2021 5:29:00 PM

9 sample(s) were received intact in a custody-sealed cooler(s) unless otherwise noted. Upon receipt, cooler temperature(s) was determined using a NIST traceable digital infrared thermometer. The cooler temperature was acceptable ($\leq 6^{\circ}\text{C}$) and documented as: {3.7}°C

Sample Summary

<u>SampleName</u>	<u>Lab Number</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
TP-1_10.13.2021 (0-4)	21J0624-01	Soil	10/13/2021 9:40:00 AM	10/13/2021 5:29:00 PM
TP-2_10.13.2021 (10-12)	21J0624-02	Soil	10/13/2021 11:05:00 AM	10/13/2021 5:29:00 PM
TP-3_10.13.2021 (10-11)	21J0624-03	Soil	10/13/2021 12:10:00 PM	10/13/2021 5:29:00 PM
TP-4_10.13.2021 (5-6)	21J0624-04	Soil	10/13/2021 1:25:00 PM	10/13/2021 5:29:00 PM
TP-5_10.13.2021 (1-2)	21J0624-05	Soil	10/13/2021 2:30:00 PM	10/13/2021 5:29:00 PM
GS-1_10.13.2021	21J0624-06	Soil	10/13/2021 3:10:00 PM	10/13/2021 5:29:00 PM
GS-2_10.13.2021	21J0624-07	Soil	10/13/2021 3:38:00 PM	10/13/2021 5:29:00 PM
GS-3_10.13.2021	21J0624-08	Soil	10/13/2021 4:00:00 PM	10/13/2021 5:29:00 PM
Trip Blanks	21J0624-09	Water	10/13/2021 3:00:00 PM	10/13/2021 5:29:00 PM

York Analytical Work Order Narrative

2.0 Methodology

<u>Analysis Class</u>	<u>Preparation Method</u>	<u>Analysis Methodology</u>
VOA	EPA 5030B	EPA 8260C
VOA	EPA 5035A	EPA 8260C
SVOA	EPA 3545A	EPA 8270D
PEST	EPA 3545A	EPA 8081B
ARO	EPA 3545A	EPA 8082A
HERB	EPA 3550C/8151A	EPA 8151A
GC	EPA 3545A	CT DEP ETPH
METALS	EPA 3050B	EPA 6010D
HG	EPA 7473 soil	EPA 7473
WET	Analysis Preparation	ASTM 1498-08 M
WET	EPA SW846-3060	EPA 7196A
WET	Analysis Preparation Soil	EPA 9014/9010C
WET	Analysis Preparation	EPA 9045D
WET	% Solids Prep	SM 2540G

Analyte List

Method	Analyte
ASTM 1498-08 M	ORP (Oxidation-Reduction Potential) (Ag/AgCl)
CT DEP ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)
EPA 6010D	Antimony ; Arsenic ; Barium ; Beryllium ; Cadmium ; Chromium ; Copper ; Lead ; Nickel ; Selenium ; Silver ; Thallium ; Vanadium ; Zinc
EPA 7196A	Chromium, Hexavalent
EPA 7473	Mercury
EPA 8081B	4,4'-DDD ; 4,4'-DDE ; 4,4'-DDT ; Alachlor ; Aldrin ; alpha-BHC ; beta-BHC ; Chlordane, total ; delta-BHC ; Dieldrin ; Endosulfan I ; Endosulfan II ; Endosulfan sulfate ; Endrin ; Endrin aldehyde ; Endrin ketone ; gamma-BHC (Lindane) ; Heptachlor ; Heptachlor epoxide ; Methoxychlor ; Toxaphene
EPA 8082A	Aroclor 1016 ; Aroclor 1221 ; Aroclor 1232 ; Aroclor 1242 ; Aroclor 1248 ; Aroclor 1254 ; Aroclor 1260 ; Aroclor 1262 ; Aroclor 1268 ; Total PCBs
EPA 8151A	2,4,5-T ; 2,4,5-TP (Silvex) ; 2,4-D ; Dalapon ; Dicamba
EPA 8260C	1,1,1,2-Tetrachloroethane ; 1,1,1-Trichloroethane ; 1,1,2,2-Tetrachloroethane ; 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) ; 1,1,2-Trichloroethane ; 1,1-Dichloroethane ; 1,1-Dichloroethylene ; 1,1-Dichloropropylene ; 1,2,3-Trichlorobenzene ; 1,2,3-Trichloropropane ; 1,2,4-Trichlorobenzene ; 1,2,4-Trimethylbenzene ; 1,2-Dibromo-3-chloropropane ; 1,2-Dibromoethane ; 1,2-Dichlorobenzene ; 1,2-Dichloroethane ; 1,2-Dichloropropane ; 1,3,5-Trimethylbenzene ; 1,3-Dichlorobenzene ; 1,3-Dichloropropane ; 1,4-Dichlorobenzene ; 2,2-Dichloropropane ; 2-Butanone ; 2-Chlorotoluene ; 2-Hexanone ; 4-Chlorotoluene ; 4-Methyl-2-pentanone ; Acetone ; Acrylonitrile ; Benzene ; Bromobenzene ; Bromochloromethane ; Bromodichloromethane ; Bromoform ; Bromomethane ; Carbon disulfide ; Carbon tetrachloride ; Chlorobenzene ; Chloroethane ; Chloroform ; Chloromethane ; cis-1,2-Dichloroethylene ; cis-1,3-Dichloropropylene ; Dibromochloromethane ; Dibromomethane ; Dichlorodifluoromethane ; Ethyl Benzene ; Hexachlorobutadiene ; Isopropylbenzene ; Methyl Methacrylate ; Methyl tert-butyl ether (MTBE) ; Methylene chloride ; Naphthalene ; n-Butylbenzene ; n-Propylbenzene ; o-Xylene ; p- & m-Xylenes ; p-Isopropyltoluene ; sec-Butylbenzene ; Styrene ; tert-Butylbenzene ; Tetrachloroethylene ; Tetrahydrofuran ; Toluene ; trans-1,2-Dichloroethylene ; trans-1,3-Dichloropropylene ; trans-1,4-dichloro-2-butene ; Trichloroethylene ; Trichlorofluoromethane ; Vinyl Chloride

York Analytical Work Order Narrative

EPA 8270D

1,2,4,5-Tetrachlorobenzene ; 1,2,4-Trichlorobenzene ; 1-Methylnaphthalene ; 2,4,5-Trichlorophenol ; 2,4,6-Trichlorophenol ; 2,4-Dichlorophenol ; 2,4-Dimethylphenol ; 2,4-Dinitrophenol ; 2,4-Dinitrotoluene ; 2,6-Dinitrotoluene ; 2-Chloronaphthalene ; 2-Chlorophenol ; 2-Methylnaphthalene ; 2-Methylphenol ; 2-Nitroaniline ; 2-Nitrophenol ; 3- & 4-Methylphenols ; 3,3-Dichlorobenzidine ; 3-Nitroaniline ; 4,6-Dinitro-2-methylphenol ; 4-Bromophenyl phenyl ether ; 4-Chloro-3-methylphenol ; 4-Chloroaniline ; 4-Chlorophenyl phenyl ether ; 4-Nitroaniline ; 4-Nitrophenol ; Acenaphthene ; Acenaphthylene ; Aniline ; Anthracene ; Benzo(a)anthracene ; Benzo(a)pyrene ; Benzo(b)fluoranthene ; Benzo(g,h,i)perylene ; Benzo(k)fluoranthene ; Benzyl butyl phthalate ; Bis(2-chloroethoxy)methane ; Bis(2-chloroethyl)ether ; Bis(2-chloroisopropyl)ether ; Bis(2-ethylhexyl)phthalate ; Carbazole ; Chrysene ; Dibenzo(a,h)anthracene ; Dibenzofuran ; Diethyl phthalate ; Dimethyl phthalate ; Di-n-butyl phthalate ; Di-n-octyl phthalate ; Fluoranthene ; Fluorene ; Hexachlorobenzene ; Hexachlorobutadiene ; Hexachlorocyclopentadiene ; Hexachloroethane ; Indeno(1,2,3-cd)pyrene ; Isophorone ; Naphthalene ; Nitrobenzene ; N-nitroso-di-n-propylamine ; N-Nitrosodiphenylamine ; Pentachloronitrobenzene ; Pentachlorophenol ; Phenanthrene ; Phenol ; Pyrene ; Pyridine

EPA 9014/9010C

Cyanide, total

EPA 9045D

pH

SM 2540G

% Solids

3.0 Sample Issues

No issues were encountered with the samples submitted other than those detailed below.

York Analytical Work Order Narrative

CT DEEP Reasonable Confidence Protocol

Sample Analyte Bias Based on QC Performance

	LabNumber	SampleID	Analyte	ICVSCV	CCV	BS/LCS	MS	MSD	MSDRPD
METALS	21J0624-01	TP-1_10.13.2021 (0-4)	Barium			high			
METALS	21J0624-01	TP-1_10.13.2021 (0-4)	Copper			high			
METALS	21J0624-01	TP-1_10.13.2021 (0-4)	Nickel			high			
METALS	21J0624-02	TP-2_10.13.2021 (10-12)	Barium			high			
METALS	21J0624-02	TP-2_10.13.2021 (10-12)	Copper			high			
METALS	21J0624-02	TP-2_10.13.2021 (10-12)	Nickel			high			
METALS	21J0624-03	TP-3_10.13.2021 (10-11)	Barium			high			
METALS	21J0624-03	TP-3_10.13.2021 (10-11)	Copper			high			
METALS	21J0624-03	TP-3_10.13.2021 (10-11)	Nickel			high			
METALS	21J0624-04	TP-4_10.13.2021 (5-6)	Barium			high			
METALS	21J0624-04	TP-4_10.13.2021 (5-6)	Copper			high			
METALS	21J0624-04	TP-4_10.13.2021 (5-6)	Nickel			high			
METALS	21J0624-05	TP-5_10.13.2021 (1-2)	Barium			high			
METALS	21J0624-05	TP-5_10.13.2021 (1-2)	Copper			high			
METALS	21J0624-05	TP-5_10.13.2021 (1-2)	Nickel			high			
METALS	21J0624-06	GS-1_10.13.2021	Barium			high			
METALS	21J0624-06	GS-1_10.13.2021	Copper			high			
METALS	21J0624-06	GS-1_10.13.2021	Nickel			high			
METALS	21J0624-07	GS-2_10.13.2021	Barium			high			
METALS	21J0624-07	GS-2_10.13.2021	Copper			high			
METALS	21J0624-07	GS-2_10.13.2021	Nickel			high			
METALS	21J0624-08	GS-3_10.13.2021	Barium			high			
METALS	21J0624-08	GS-3_10.13.2021	Copper			high			
METALS	21J0624-08	GS-3_10.13.2021	Nickel			high			

CT DEEP Reasonable Confidence Protocol

Sample Analyte Bias Based on QC Performance

	LabNumber	SampleID	Analyte	ICVSCV	CCV	BS/LCS	MS	MSD	MSDRPD
VOA	21J0624-01	TP-1_10.13.2021 (0-4)	Methylene chloride	high	high	high			
VOA	21J0624-03	TP-3_10.13.2021 (10-11)	Acetone	Low		Low			
VOA	21J0624-04	TP-4_10.13.2021 (5-6)	Acetone	Low		Low			
VOA	21J0624-04	TP-4_10.13.2021 (5-6)	Methylene chloride	high	high	high			

York Analytical Work Order Narrative

CT DEEP Reasonable Confidence Protocol

Sample Analyte Bias Based on QC Performance

	LabNumber	SampleID	Analyte	ICVSCV	CCV	BS/LCS	MS	MSD	MSDRPD
VOA	21J0624-05	TP-5_10.13.2021 (1-2)	Methylene chloride	high	high	high			

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York Analytical Work Order Narrative

Qualifier Summary Report:

SampleID	Method	LabNumber	Matrix	Analyte	Qualifier
TP-1_10.13.2021 (0-4)	EPA 8260C	21J0624-01	Soil	Methylene chloride	B
TP-4_10.13.2021 (5-6)	EPA 8260C	21J0624-04	Soil	Methylene chloride	B
TP-5_10.13.2021 (1-2)	EPA 8260C	21J0624-05	Soil	Methylene chloride	B
	EPA 8260C	BJ10942-BS1	Water	1,2-Dibromo-3-chloropropane	QL-02
	EPA 8260C	BJ10942-BS1	Water	Chloromethane	QL-02
	EPA 8260C	BJ10942-BS1	Water	Dichlorodifluoromethane	QL-02
	EPA 8260C	BJ10942-BS1	Water	Tetrachloroethylene	QL-02
	EPA 8260C	BJ10942-BS1	Water	Tetrahydrofuran	QL-02
	EPA 8260C	BJ10942-BS1	Water	Vinyl Chloride	QL-02
	EPA 8260C	BJ10942-BSD1	Water	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Carbon disulfide	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Chloroethane	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Chloromethane	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Dichlorodifluoromethane	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Methyl tert-butyl ether (MTBE)	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Tetrachloroethylene	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Tetrahydrofuran	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Trichlorofluoromethane	QL-02
	EPA 8260C	BJ10942-BSD1	Water	Vinyl Chloride	QL-02
	EPA 8260C	BJ10948-BS1	Soil	Acetone	QL-02
	EPA 8260C	BJ10948-BS1	Soil	Methylene chloride	B
	EPA 8260C	BJ10948-BS1	Soil	Methylene chloride	QL-02
	EPA 8260C	BJ10948-BSD1	Soil	Dichlorodifluoromethane	QL-02
	EPA 8260C	BJ10948-BSD1	Soil	Methylene chloride	B
	EPA 8260C	BJ10948-BSD1	Soil	Methylene chloride	QL-02
	EPA 8260C	BJ10948-BSD1	Soil	Vinyl Chloride	QL-02
	EPA 8270D	BJ11002-BLK1	Soil	SURR: 2,4,6-Tribromophenol	S-08
	EPA 8270D	BJ11002-BS1	Soil	2,4-Dinitrophenol	QL-02
	EPA 8270D	BJ11002-BS1	Soil	Bis(2-chloroisopropyl)ether	E
	EPA 8270D	BJ11002-BS1	Soil	Bis(2-chloroisopropyl)ether	QL-02
	EPA 8270D	BJ11002-BS1	Soil	Hexachlorocyclopentadiene	QL-02

York Analytical Work Order Narrative

Qualifier Definitions :

B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
S-08	The recovery of this surrogate was outside of QC limits.

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York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8260C

No problems were encountered with analysis of the samples, other than detailed below.

Calibration YH10013

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
YH10013	Y1H1604	Y1H1604	Secondary Cal Check	Y1H1604-SCV1	VOA No. 10	V10C006682.D
YH10013	Y1J1815	Y1J1815	Calibration Check	Y1J1815-CCV1	VOA No. 10	V10C007845.D
YH10013	BJ10942	Y1J1815	LCS	BJ10942-BS1	VOA No. 10	V10C007846.D
YH10013	BJ10942	Y1J1815	LCS Dup	BJ10942-BSD1	VOA No. 10	V10C007847.D
YH10013	BJ10942	Y1J1815	Blank	BJ10942-BLK1	VOA No. 10	V10C007849.D
YH10013	BJ10942	Y1J1815	Trip Blanks	21J0624-09	VOA No. 10	V10C007853.D

Initial calibration for EPA 8260C exceeded method guidelines.

Calibration	Instrument	Calibration Date	File ID
YH10013	VOA No. 10	8/13/2021 12:51:04 AM	V10C006670.D

Analyte	RSD%	RSDLim	<MinRRF	RRFLim	CorrCoeff	CCOut	SIM	CAL curve
2-Butanone	43.57	15	0.0445	0.05				Avg
Acetone	15.11	15						other
Bromoform	20.87	15						other
Bromomethane	29.43	15						other
Tetrahydrofuran	23.70	15	0.0357	0.05				Avg
trans-1,4-dichloro-2-butene	20.27	15						Avg

The following QC and or client samples were affected:

SampleName	LabNumber	SourceSample	File ID
Secondary Cal Check	Y1H1604-SCV1		V10C006682.D
Calibration Check	Y1J1815-CCV1		V10C007845.D
LCS	BJ10942-BS1		V10C007846.D
LCS Dup	BJ10942-BSD1		V10C007847.D

York Analytical Work Order Narrative

EPA 8260C

Initial Calibration Verification-

The initial calibration verification for analytical method EPA 8260C

all target compounds recovered within method limits with the following exceptions:

Calibration ID	Lab Number	Analyte	True Value	Result	Recovery%	Limits
YH10013	Y1H1604-SCV1	1,2-Dibromo-3-chloropropane	10.0	7.81	78.1	80 - 120
YH10013	Y1H1604-SCV1	4-Methyl-2-pentanone	10.0	7.68	76.8	80 - 120
YH10013	Y1H1604-SCV1	Acetone	10.0	6.50	65.0	80 - 120
YH10013	Y1H1604-SCV1	Bromomethane	10.0	13.1	131	80 - 120
YH10013	Y1H1604-SCV1	Dichlorodifluoromethane	10.0	13.4	134	80 - 120
YH10013	Y1H1604-SCV1	Tetrachloroethylene	10.0	6.21	62.1	80 - 120

The following QC and or client samples were affected:

LabNumber	SampleName	File ID
Y1J1815-CCV1	Calibration Check	V10C007845.D
BJ10942-BS1	LCS	V10C007846.D
BJ10942-BSD1	LCS Dup	V10C007847.D

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
YH10013	Y1J1815	Y1J1815-CCV1	V10C007845.D	10/15/21 17:32

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
YH10013	Y1J1815-CCV1	2-Butanone	ug/L	14.0	10.0	140	70 130	V10C007845.D
YH10013	Y1J1815-CCV1	Acetone	ug/L	13.5	10.0	135	70 130	V10C007845.D
YH10013	Y1J1815-CCV1	Tetrahydrofuran	ug/L	14.2	10.0	142	70 130	V10C007845.D

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
YH10013	Y1J1815	BJ10942-BS1	LCS		V10C007846.D
YH10013	Y1J1815	BJ10942-BSD1	LCS Dup		V10C007847.D

York Analytical Work Order Narrative

EPA 8260C

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
VOA	BJ10942	Y1J1815	VOA No. 10	BJ10942-BLK1	V10C007849.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID				
YH10013	Y1J1815	BJ10942-BS1	LCS	V10C007846.D				
YH10013	Y1J1815	BJ10942-BSD1	LCS Dup	V10C007847.D				
Sequence	SampleName	LabNumber	Analyte	DupRec%	Rec%	RPD%	REC Limits	RPD Limit
Y1J1815	LCS	BJ10942-BS1	1,2-Dibromo-3-chloropropane		68.9		70 - 130	
Y1J1815	LCS	BJ10942-BS1	Chloromethane		144		70 - 130	
Y1J1815	LCS	BJ10942-BS1	Dichlorodifluoromethane		172		70 - 130	
Y1J1815	LCS	BJ10942-BS1	Tetrachloroethylene		60.3		70 - 130	
Y1J1815	LCS	BJ10942-BS1	Tetrahydrofuran		132		70 - 130	
Y1J1815	LCS	BJ10942-BS1	Vinyl Chloride		133		70 - 130	
Y1J1815	LCS Dup	BJ10942-BSD1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	126	134	6.69	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Carbon disulfide	124	134	7.75	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Chloroethane	129	138	6.97	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Chloromethane	144	158	9.56	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Dichlorodifluoromethane	172	186	7.72	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Methyl tert-butyl ether (MTBE)	124	131	5.34	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Tetrachloroethylene	60.3	65.6	8.42	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Tetrahydrofuran	132	156	16.7	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Trichlorofluoromethane	128	140	8.79	70 - 130	30
Y1J1815	LCS Dup	BJ10942-BSD1	Vinyl Chloride	133	146	9.41	70 - 130	30

EPA 8260C

Dilutions: No sample dilutions were required.

EPA 8260C

Internal Standards / Surrogates

Internal Standards Issues: No issues were encountered.

Surrogate Issues: No issues were encountered.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8260C

No problems were encountered with analysis of the samples, other than detailed below.

Calibration YI10020

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
YI10020	Y1I2419	Y1I2419	Secondary Cal Check	Y1I2419-SCV1	MS VOA 2	V2607782.D
YI10020	Y1J1813	Y1J1813	Calibration Check	Y1J1813-CCV1	MS VOA 2	V2608492.D
YI10020	BJ10948	Y1J1813	LCS	BJ10948-BS1	MS VOA 2	V2608493.D
YI10020	BJ10948	Y1J1813	LCS Dup	BJ10948-BSD1	MS VOA 2	V2608494.D
YI10020	BJ10948	Y1J1813	Blank	BJ10948-BLK1	MS VOA 2	V2608495.D
YI10020	BJ10948	Y1J1813	Blank	BJ10948-BLK2	MS VOA 2	V2608496.D
YI10020	BJ10948	Y1J1813	Blank	BJ10948-BLK3	MS VOA 2	V2608497.D
YI10020	BJ10948	Y1J1813	TP-1_10.13.2021 (0-4)	21J0624-01	MS VOA 2	V2608498.D
YI10020	BJ10948	Y1J1813	TP-2_10.13.2021 (10-12)	21J0624-02	MS VOA 2	V2608499.D
YI10020	BJ10948	Y1J1813	TP-3_10.13.2021 (10-11)	21J0624-03	MS VOA 2	V2608500.D
YI10020	BJ10948	Y1J1813	TP-4_10.13.2021 (5-6)	21J0624-04	MS VOA 2	V2608501.D
YI10020	BJ10948	Y1J1813	TP-5_10.13.2021 (1-2)	21J0624-05	MS VOA 2	V2608502.D

Initial calibration for EPA 8260C exceeded method guidelines.

Calibration	Intrument	Calibration Date	File ID
YI10020	MS VOA 2	9/23/2021 1:27:17 PM	V2607770.D

Analyte	RSD%	RSDLim	<MinRRF	RRFLim	CorrCoeff	CCOut	SIM	CAL curve
Methylene chloride	70.76	15						other

The following QC and or client samples were affected:

SampleName	LabNumber	SourceSample	File ID
Secondary Cal Check	Y1I2419-SCV1		V2607782.D
Calibration Check	Y1J1813-CCV1		V2608492.D
LCS	BJ10948-BS1		V2608493.D
LCS Dup	BJ10948-BSD1		V2608494.D
Blank	BJ10948-BLK2		V2608496.D
Blank	BJ10948-BLK3		V2608497.D
TP-1_10.13.2021 (0-4)	21J0624-01		V2608498.D
TP-4_10.13.2021 (5-6)	21J0624-04		V2608501.D
TP-5_10.13.2021 (1-2)	21J0624-05		V2608502.D

York Analytical Work Order Narrative

EPA 8260C

Initial Calibration Verification-

The initial calibration verification for analytical method EPA 8260C

all target compounds recovered within method limits with the following exceptions:

Calibration ID	Lab Number	Analyte	True Value	Result	Recovery%	Limits
YI10020	Y1I2419-SCV1	Acetone	50.0	33.3	66.5	80 - 120
YI10020	Y1I2419-SCV1	Dichlorodifluoromethane	50.0	76.3	153	80 - 120
YI10020	Y1I2419-SCV1	Methylene chloride	50.0	62.5	125	80 - 120

The following QC and or client samples were affected:

LabNumber	SampleName	File ID
Y1J1813-CCV1	Calibration Check	V2608492.D
BJ10948-BS1	LCS	V2608493.D
BJ10948-BSD1	LCS Dup	V2608494.D
BJ10948-BLK2	Blank	V2608496.D
BJ10948-BLK3	Blank	V2608497.D
21J0624-01	TP-1_10.13.2021 (0-4)	V2608498.D
21J0624-03	TP-3_10.13.2021 (10-11)	V2608500.D
21J0624-04	TP-4_10.13.2021 (5-6)	V2608501.D
21J0624-05	TP-5_10.13.2021 (1-2)	V2608502.D

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
YI10020	Y1J1813	Y1J1813-CCV1	V2608492.D	10/15/21 21:22

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
YI10020	Y1J1813-CCV1	Methylene chloride	ug/L	96.6	50.0	193	70 130	V2608492.D

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
YI10020	Y1J1813	BJ10948-BS1	LCS		V2608493.D
YI10020	Y1J1813	BJ10948-BSD1	LCS Dup		V2608494.D
YI10020	Y1J1813	BJ10948-BLK2	Blank		V2608496.D
YI10020	Y1J1813	BJ10948-BLK3	Blank		V2608497.D
YI10020	Y1J1813	21J0624-01	TP-1_10.13.2021 (0-4)		V2608498.D
YI10020	Y1J1813	21J0624-04	TP-4_10.13.2021 (5-6)		V2608501.D
YI10020	Y1J1813	21J0624-05	TP-5_10.13.2021 (1-2)		V2608502.D

York Analytical Work Order Narrative

EPA 8260C

Batch QC

Method Blank-

	Batch	Sequence	Instrument	Blank	FileID
VOA	BJ10948	Y1J1813	MS VOA 2	BJ10948-BLK1	V2608495.D
VOA	BJ10948	Y1J1813	MS VOA 2	BJ10948-BLK2	V2608496.D
VOA	BJ10948	Y1J1813	MS VOA 2	BJ10948-BLK3	V2608497.D

Sequence	SampleName	LabNumber	Matrix	Analyte	Result	MRL	RptUnits
Y1J1813	Blank	BJ10948-BLK3	Soil	Methylene chloride	12	10	ug/kg wet
Y1J1813	Blank	BJ10948-BLK2	Soil	Methylene chloride	2700	1000	ug/kg wet

The following QC and or client samples had positive(s) in associated blanks:

Batch	LabNumber	SampleName	File ID
BJ10948	21J0624-01	TP-1_10.13.2021 (0-4)	V2608498.D
BJ10948	21J0624-04	TP-4_10.13.2021 (5-6)	V2608501.D
BJ10948	21J0624-05	TP-5_10.13.2021 (1-2)	V2608502.D
BJ10948	BJ10948-BS1	LCS	V2608493.D
BJ10948	BJ10948-BSD1	LCS Dup	V2608494.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
Y1I0020	Y1J1813	BJ10948-BS1	LCS	V2608493.D
Y1I0020	Y1J1813	BJ10948-BSD1	LCS Dup	V2608494.D

Sequence	SampleName	LabNumber	Analyte	DupRec%	Rec%	RPD%	REC Limits	RPD Limit
Y1J1813	LCS	BJ10948-BS1	Acetone		67.1		70 - 130	
Y1J1813	LCS	BJ10948-BS1	Methylene chloride		222		70 - 130	
Y1J1813	LCS Dup	BJ10948-BSD1	Dichlorodifluoromethane	130	134	2.45	70 - 130	30
Y1J1813	LCS Dup	BJ10948-BSD1	Methylene chloride	222	247	10.8	70 - 130	30
Y1J1813	LCS Dup	BJ10948-BSD1	Vinyl Chloride	124	131	5.42	70 - 130	30

The following samples were affected:

Batch	LabNumber	SampleName	SourceSample
BJ10948	21J0624-01	TP-1_10.13.2021 (0-4	
BJ10948	21J0624-03	TP-3_10.13.2021 (10-	
BJ10948	21J0624-04	TP-4_10.13.2021 (5-6	
BJ10948	21J0624-05	TP-5_10.13.2021 (1-2	
BJ10948	BJ10948-BLK2	Blank	
BJ10948	BJ10948-BLK3	Blank	

EPA 8260C

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

EPA 8260C

Internal Standards / Surrogates

Internal Standards Issues: No issues were encountered.

Surrogate Issues: No issues were encountered.

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York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8270D

No problems were encountered with analysis of the samples, other than detailed below.

Calibration YI10013

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
YI10013	Y1I2104	Y1I2104	Secondary Cal Check	Y1I2104-SCV1	BNA#2	E20003769.D
YI10013	Y1J1932	Y1J1932	Calibration Check	Y1J1932-CCV1	BNA#2	E20004270.D
YI10013	BJ11002	Y1J1932	Blank	BJ11002-BLK1	BNA#2	E20004278.D
YI10013	BJ11002	Y1J1932	LCS	BJ11002-BS1	BNA#2	E20004279.D
YI10013	Y1J2012	Y1J2012	Calibration Check	Y1J2012-CCV1	BNA#2	E20004281.D
YI10013	BJ11002	Y1J2012	TP-1_10.13.2021 (0-4)	21J0624-01	BNA#2	E20004289.D
YI10013	BJ11002	Y1J2012	TP-2_10.13.2021 (10-12)	21J0624-02	BNA#2	E20004290.D
YI10013	BJ11002	Y1J2012	TP-3_10.13.2021 (10-11)	21J0624-03	BNA#2	E20004291.D
YI10013	BJ11002	Y1J2012	TP-4_10.13.2021 (5-6)	21J0624-04	BNA#2	E20004292.D
YI10013	BJ11002	Y1J2012	TP-5_10.13.2021 (1-2)	21J0624-05	BNA#2	E20004293.D

Initial calibration for EPA 8270D exceeded method guidelines.

Calibration	Intrument	Calibration Date	File ID
YI10013	BNA#2	9/21/2021 9:02:25 AM	E20003760.D

Analyte	RSD%	RSDLim	<MinRRF	RRFLim	CorrCoeff	CCOut	SIM	CAL curve
2,4-Dinitrophenol	21.16	15						Avg
4,6-Dinitro-2-methylphenol	23.67	15						Avg

The following QC and or client samples were affected:

SampleName	LabNumber	SourceSample	File ID
Secondary Cal Check	Y1I2104-SCV1		E20003769.D
Calibration Check	Y1J1932-CCV1		E20004270.D
LCS	BJ11002-BS1		E20004279.D
Calibration Check	Y1J2012-CCV1		E20004281.D

York Analytical Work Order Narrative

EPA 8270D

Initial Calibration Verification-

The initial calibration verification for analytical method EPA 8270D

all target compounds recovered within method limits with the following exceptions:

Calibration ID	Lab Number	Analyte	True Value	Result	Recovery%	Limits
YI10013	Y1I2104-SCV1	3- & 4-Methylphenols	30.0	22.5	75.1	80 - 120
YI10013	Y1I2104-SCV1	Pyridine	30.0	23.6	78.6	80 - 120

The following QC and or client samples were affected:

LabNumber	SampleName	File ID
Y1J1932-CCV1	Calibration Check	E20004270.D
BJ11002-BS1	LCS	E20004279.D
Y1J2012-CCV1	Calibration Check	E20004281.D

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
YI10013	Y1J1932	Y1J1932-CCV1	E20004270.D	10/19/21 10:20
YI10013	Y1J2012	Y1J2012-CCV1	E20004281.D	10/19/21 16:20

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
YI10013	Y1J1932-CCV1	2,4-Dinitrophenol	ug/mL	40.6	30.0	135	70 130	E20004270.D
YI10013	Y1J1932-CCV1	2,4-Dinitrotoluene	ug/mL	39.5	30.0	132	70 130	E20004270.D
YI10013	Y1J1932-CCV1	4,6-Dinitro-2-methylphenol	ug/mL	50.1	30.0	167	70 130	E20004270.D
YI10013	Y1J1932-CCV1	Benzo(a)pyrene	ug/mL	19.6	30.0	65.3	80 120	E20004270.D
YI10013	Y1J1932-CCV1	Bis(2-chloroisopropyl)ether	ug/mL	87.6	30.0	292	70 130	E20004270.D
YI10013	Y1J1932-CCV1	Pentachloronitrobenzene	ug/mL	39.9	30.0	133	70 130	E20004270.D
YI10013	Y1J1932-CCV1	Pentachlorophenol	ug/mL	22.3	30.0	74.2	80 120	E20004270.D
YI10013	Y1J2012-CCV1	2,4-Dinitrophenol	ug/mL	45.8	30.0	153	70 130	E20004281.D
YI10013	Y1J2012-CCV1	2,4-Dinitrotoluene	ug/mL	52.5	30.0	175	70 130	E20004281.D
YI10013	Y1J2012-CCV1	4,6-Dinitro-2-methylphenol	ug/mL	53.8	30.0	179	70 130	E20004281.D
YI10013	Y1J2012-CCV1	Bis(2-chloroisopropyl)ether	ug/mL	86.4	30.0	288	70 130	E20004281.D
YI10013	Y1J2012-CCV1	Hexachlorobutadiene	ug/mL	37.0	30.0	123	80 120	E20004281.D
YI10013	Y1J2012-CCV1	Pentachloronitrobenzene	ug/mL	40.4	30.0	135	70 130	E20004281.D

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
YI10013	Y1J1932	BJ11002-BS1	LCS		E20004279.D

York Analytical Work Order Narrative

EPA 8270D

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
SVOA	BJ11002	Y1J1932	BNA#2	BJ11002-BLK1	E20004278.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID				
YI10013	Y1J1932	BJ11002-BS1	LCS	E20004279.D				
Sequence	SampleName	LabNumber	Analyte	DupRec%	Rec%	RPD%	REC Limits	RPD Limit
Y1J1932	LCS	BJ11002-BS1	2,4-Dinitrophenol		17.6		30 - 130	
Y1J1932	LCS	BJ11002-BS1	Bis(2-chloroisopropyl)ether		284		40 - 140	
Y1J1932	LCS	BJ11002-BS1	Hexachlorocyclopentadiene		0		40 - 140	

EPA 8270D

Dilutions:

	SpecificMethod	Batch	SampleName	LabNumber	Dilution
	EPA 8270D	BJ11002	TP-1_10.13.2021 (0-4)	21J0624-01	2
	EPA 8270D	BJ11002	TP-2_10.13.2021 (10-12)	21J0624-02	2
	EPA 8270D	BJ11002	TP-3_10.13.2021 (10-11)	21J0624-03	2
	EPA 8270D	BJ11002	TP-4_10.13.2021 (5-6)	21J0624-04	2
	EPA 8270D	BJ11002	TP-5_10.13.2021 (1-2)	21J0624-05	2

EPA 8270D

Internal Standards / Surrogates

Internal Standards Issues: No issues were encountered.

Surrogate Issues:

Calibration	SampleName	LabNumber	Analyte	Rec %	Limits
YI10013	Blank	BJ11002-BLK1	SURR: 2,4,6-Tribromophenol	142	30 - 130

Analytical Comments

A procedural 2x dilution is performed on all Semi-Volatile soil samples, in accordance with laboratory SOP.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8081B

No problems were encountered with analysis of the samples, other than detailed below.

Calibration YJ10011

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
YJ10011	Y1J2106	Y1J2106	Performance Mix	Y1J2106-PEM1	GCECD6	P60021514.D
YJ10011	Y1J2106	Y1J2106	Calibration Check	Y1J2106-CCV1	GCECD6	P60021515.D
YJ10011	Y1J2106	Y1J2106	Calibration Check	Y1J2106-CCV2	GCECD6	P60021516.D
YJ10011	Y1J2106	Y1J2106	Calibration Check	Y1J2106-CCV3	GCECD6	P60021517.D
YJ10011	Y1J2106	Y1J2106	Calibration Check	Y1J2106-CCV4	GCECD6	P60021538.D
YJ10011	BJ11059	Y1J2106	Blank	BJ11059-BLK1	GCECD6	P60021543.D
YJ10011	BJ11059	Y1J2106	LCS	BJ11059-BS1	GCECD6	P60021544.D
YJ10011	BJ11059	Y1J2106	TP-1_10.13.2021 (0-4)	21J0624-01	GCECD6	P60021545.D
YJ10011	BJ11059	Y1J2106	TP-2_10.13.2021 (10-12)	21J0624-02	GCECD6	P60021546.D
YJ10011	BJ11059	Y1J2106	TP-3_10.13.2021 (10-11)	21J0624-03	GCECD6	P60021547.D
YJ10011	BJ11059	Y1J2106	TP-4_10.13.2021 (5-6)	21J0624-04	GCECD6	P60021548.D
YJ10011	BJ11059	Y1J2106	TP-5_10.13.2021 (1-2)	21J0624-05	GCECD6	P60021549.D
YJ10011	BJ11059	Y1J2106	GS-1_10.13.2021	21J0624-06	GCECD6	P60021550.D
YJ10011	BJ11059	Y1J2106	GS-2_10.13.2021	21J0624-07	GCECD6	P60021551.D
YJ10011	BJ11059	Y1J2106	GS-3_10.13.2021	21J0624-08	GCECD6	P60021552.D
YJ10011	Y1J2106	Y1J2106	Calibration Check	Y1J2106-CCV5	GCECD6	P60021560.D

Initial calibration for EPA 8081B met method guidelines.

York Analytical Work Order Narrative

EPA 8081B

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
YJ10011	Y1J2106	Y1J2106-CCV1	P60021515.D	10/20/21 07:53
YJ10011	Y1J2106	Y1J2106-CCV2	P60021516.D	10/20/21 08:09
YJ10011	Y1J2106	Y1J2106-CCV3	P60021517.D	10/20/21 08:26
YJ10011	Y1J2106	Y1J2106-CCV4	P60021538.D	10/20/21 14:19
YJ10011	Y1J2106	Y1J2106-CCV5	P60021560.D	10/20/21 20:33

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
YJ10011	Y1J2106-CCV1	4,4'-DDE	ng/mL	40.3	50.0	80.5	85 115	P60021515.D
YJ10011	Y1J2106-CCV1	alpha-BHC	ng/mL	41.0	50.0	81.9	85 115	P60021515.D
YJ10011	Y1J2106-CCV1	beta-BHC	ng/mL	41.2	50.0	82.4	85 115	P60021515.D
YJ10011	Y1J2106-CCV1	Endosulfan sulfate	ng/mL	41.8	50.0	83.7	85 115	P60021515.D
YJ10011	Y1J2106-CCV1	Methoxychlor	ng/mL	40.7	50.0	81.3	85 115	P60021515.D
YJ10011	Y1J2106-CCV1	Decachlorobiphenyl	ng/mL	102	160	64.1	85 115	P60021515.D
YJ10011	Y1J2106-CCV1	Tetrachloro-m-xylene	ng/mL	110	160	68.9	85 115	P60021515.D
YJ10011	Y1J2106-CCV2	Chlordane, total	ng/mL	848	1000	84.8	85 115	P60021516.D
YJ10011	Y1J2106-CCV2	Decachlorobiphenyl	ng/mL	0.00	200	0	85 115	P60021516.D
YJ10011	Y1J2106-CCV2	Tetrachloro-m-xylene	ng/mL	0.00	200	0	85 115	P60021516.D
YJ10011	Y1J2106-CCV3	Toxaphene	ng/mL	1600	2000	80.2	85 115	P60021517.D
YJ10011	Y1J2106-CCV3	Decachlorobiphenyl	ng/mL	0.00	200	0	85 115	P60021517.D
YJ10011	Y1J2106-CCV3	Tetrachloro-m-xylene	ng/mL	0.00	200	0	85 115	P60021517.D
YJ10011	Y1J2106-CCV4	4,4'-DDE	ng/mL	42.1	50.0	84.2	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Aldrin	ng/mL	59.7	50.0	119	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	delta-BHC	ng/mL	59.2	50.0	118	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Dieldrin	ng/mL	59.9	50.0	120	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Endosulfan I	ng/mL	59.1	50.0	118	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Endosulfan II	ng/mL	58.2	50.0	116	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Endosulfan sulfate	ng/mL	59.8	50.0	120	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Endrin	ng/mL	59.5	50.0	119	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Endrin ketone	ng/mL	65.5	50.0	131	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	gamma-BHC (Lindane)	ng/mL	60.0	50.0	120	85 115	P60021538.D
YJ10011	Y1J2106-CCV4	Heptachlor	ng/mL	66.6	50.0	133	85 115	P60021538.D
YJ10011	Y1J2106-CCV5	Aldrin	ng/mL	59.8	50.0	120	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Dieldrin	ng/mL	59.1	50.0	118	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Endosulfan I	ng/mL	58.7	50.0	117	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Endrin	ng/mL	58.4	50.0	117	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Endrin ketone	ng/mL	59.9	50.0	120	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Heptachlor	ng/mL	63.4	50.0	127	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Methoxychlor	ng/mL	40.6	50.0	81.1	85 115	P60021560.D
YJ10011	Y1J2106-CCV5	Tetrachloro-m-xylene	ng/mL	124	160	77.7	85 115	P60021560.D

The following QC and or client samples were affected:

York Analytical Work Order Narrative

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
YJ10011	Y1J2106	Y1J2106-PEM1	Performance Mix		P60021514.D
YJ10011	Y1J2106	BJ11059-BLK1	Blank		P60021543.D
YJ10011	Y1J2106	BJ11059-BS1	LCS		P60021544.D
YJ10011	Y1J2106	21J0624-01	TP-1_10.13.2021 (0-4		P60021545.D
YJ10011	Y1J2106	21J0624-02	TP-2_10.13.2021 (10-		P60021546.D
YJ10011	Y1J2106	21J0624-03	TP-3_10.13.2021 (10-		P60021547.D
YJ10011	Y1J2106	21J0624-04	TP-4_10.13.2021 (5-6		P60021548.D
YJ10011	Y1J2106	21J0624-05	TP-5_10.13.2021 (1-2		P60021549.D
YJ10011	Y1J2106	21J0624-06	GS-1_10.13.2021		P60021550.D
YJ10011	Y1J2106	21J0624-07	GS-2_10.13.2021		P60021551.D
YJ10011	Y1J2106	21J0624-08	GS-3_10.13.2021		P60021552.D

EPA 8081B

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
PEST	BJ11059	Y1J2106	GCECD6	BJ11059-BLK1	P60021543.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
YJ10011	Y1J2106	BJ11059-BS1	LCS	P60021544.D

EPA 8081B

Dilutions:

SpecificMethod	Batch	SampleName	LabNumber	Dilution
EPA 8081B	BJ11059	TP-1_10.13.2021 (0-4)	21J0624-01	5
EPA 8081B	BJ11059	TP-2_10.13.2021 (10-12)	21J0624-02	5
EPA 8081B	BJ11059	TP-3_10.13.2021 (10-11)	21J0624-03	5
EPA 8081B	BJ11059	TP-4_10.13.2021 (5-6)	21J0624-04	5
EPA 8081B	BJ11059	TP-5_10.13.2021 (1-2)	21J0624-05	5
EPA 8081B	BJ11059	GS-1_10.13.2021	21J0624-06	5
EPA 8081B	BJ11059	GS-2_10.13.2021	21J0624-07	5
EPA 8081B	BJ11059	GS-3_10.13.2021	21J0624-08	5

York Analytical Work Order Narrative

EPA 8081B

Internal Standards / Surrogates

Surrogate Issues:

Calibration	SampleName	LabNumber	Analyte	Rec %	Limits
YJ10011	Calibration Check	Y1J2106-CCV1	Decachlorobiphenyl	64.1	85 - 115
YJ10011	Calibration Check	Y1J2106-CCV1	Tetrachloro-m-xylene	68.9	85 - 115
YJ10011	Calibration Check	Y1J2106-CCV2	Decachlorobiphenyl	0	85 - 115
YJ10011	Calibration Check	Y1J2106-CCV2	Tetrachloro-m-xylene	0	85 - 115
YJ10011	Calibration Check	Y1J2106-CCV3	Decachlorobiphenyl	0	85 - 115
YJ10011	Calibration Check	Y1J2106-CCV3	Tetrachloro-m-xylene	0	85 - 115
YJ10011	Calibration Check	Y1J2106-CCV5	Tetrachloro-m-xylene	77.7	85 - 115

Analytical Comments

A procedural 5x dilution is performed on all Pesticide soil samples, in accordance with laboratory SOP.

DRAFT

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8082A

No problems were encountered with analysis of the samples, other than detailed below.

Calibration YD10010

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
YD10010	Y1D1413	Y1D1413	Secondary Cal Check	Y1D1413-SCV1	ECD#1	P1080959.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV1	ECD#1	P1089834.D
YD10010	Y1J1952	Y1J1952	Aroclor Reference	Y1J1952-ARC1	ECD#1	P1089835.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV2	ECD#1	P1089850.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV3	ECD#1	P1089861.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV4	ECD#1	P1089872.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV5	ECD#1	P1089883.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV6	ECD#1	P1089894.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV7	ECD#1	P1089905.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV8	ECD#1	P1089916.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCV9	ECD#1	P1089927.D
YD10010	BJ11059	Y1J1952	Blank	BJ11059-BLK2	ECD#1	P1089931.D
YD10010	BJ11059	Y1J1952	LCS	BJ11059-BS2	ECD#1	P1089932.D
YD10010	BJ11059	Y1J1952	TP-1_10.13.2021 (0-4)	21J0624-01	ECD#1	P1089933.D
YD10010	BJ11059	Y1J1952	TP-2_10.13.2021 (10-12)	21J0624-02	ECD#1	P1089934.D
YD10010	BJ11059	Y1J1952	TP-3_10.13.2021 (10-11)	21J0624-03	ECD#1	P1089935.D
YD10010	BJ11059	Y1J1952	TP-4_10.13.2021 (5-6)	21J0624-04	ECD#1	P1089936.D
YD10010	BJ11059	Y1J1952	TP-5_10.13.2021 (1-2)	21J0624-05	ECD#1	P1089937.D
YD10010	BJ11059	Y1J1952	TP-5_10.13.2021 (1-2)MS2	BJ11059-MS2	ECD#1	P1089945.D
YD10010	BJ11059	Y1J1952	TP-5_10.13.2021 (1-2)MSD2	BJ11059-MSD2	ECD#1	P1089946.D
YD10010	Y1J1952	Y1J1952	Calibration Check	Y1J1952-CCVA	ECD#1	P1089947.D

Initial calibration for EPA 8082A met method guidelines.

York Analytical Work Order Narrative

EPA 8082A

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
YD10010	Y1J1952	Y1J1952-CCV1	P1089834.D	10/19/21 13:23
YD10010	Y1J1952	Y1J1952-CCV2	P1089850.D	10/19/21 17:14
YD10010	Y1J1952	Y1J1952-CCV3	P1089861.D	10/19/21 20:51
YD10010	Y1J1952	Y1J1952-CCV4	P1089872.D	10/19/21 23:21
YD10010	Y1J1952	Y1J1952-CCV5	P1089883.D	10/20/21 01:50
YD10010	Y1J1952	Y1J1952-CCV6	P1089894.D	10/20/21 04:19
YD10010	Y1J1952	Y1J1952-CCV7	P1089905.D	10/20/21 06:49
YD10010	Y1J1952	Y1J1952-CCV8	P1089916.D	10/20/21 09:18
YD10010	Y1J1952	Y1J1952-CCV9	P1089927.D	10/20/21 11:48
YD10010	Y1J1952	Y1J1952-CCVA	P1089947.D	10/20/21 16:17

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
YD10010	Y1J1952-CCV3	Aroclor 1260	ug/mL	0.829	1.00	82.9	85 115	P1089861.D

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
YD10010	Y1J1952	BJ11059-BS2	LCS		P1089932.D
YD10010	Y1J1952	BJ11059-MS2	Matrix Spike	TP-5_10.13.2021	P1089945.D
YD10010	Y1J1952	BJ11059-MSD2	Matrix Spike Dup	TP-5_10.13.2021	P1089946.D

EPA 8082A

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Batch	Sequence	Instrument	Blank	FileID
ARO	BJ11059	Y1J1952	ECD#1	BJ11059-BLK2 P1089931.D

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
YD10010	Y1J1952	BJ11059-BS2	LCS	P1089932.D

York Analytical Work Order Narrative

EPA 8082A

Matrix Spike, Matrix Spike Duplicate and/or Sample Duplicate-

MS/MSD/Duplicate analysis was performed on sample;

AnaClass	Cal	Batch	Sequence	SampleName	Sample	SourceSample	LabNumber
ARO	YD10010	BJ11059	Y1J1952	TP-5_10.13.2021 (1-2)MS	21J0624-05	TP-5_10.13.2021 (1-	BJ11059-MS2
ARO	YD10010	BJ11059	Y1J1952	TP-5_10.13.2021 (1-2)MS	21J0624-05	TP-5_10.13.2021 (1-	BJ11059-MSD2

Dilutions: No sample dilutions were required.

EPA 8082A

Internal Standards / Surrogates

Surrogate Issues:

Calibration	SampleName	LabNumber	Analyte	Rec %	Limits
YD10010	Aroclor Reference	Y1J1952-ARC1	Tetrachloro-m-xylene	89	-
YD10010	Aroclor Reference	Y1J1952-ARC1	Decachlorobiphenyl	78	-

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 8151A

No problems were encountered with analysis of the samples, other than detailed below.

Calibration YJ10014

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
YJ10014	Y1J1535	Y1J1535	Secondary Cal Check	Y1J1535-SCV1	GCECD4	PS438254.d
YJ10014	Y1J2044	Y1J2044	Calibration Check	Y1J2044-CCV1	GCECD4	PS438384.d
YJ10014	BJ11140	Y1J2044	Blank	BJ11140-BLK1	GCECD4	PS438385.d
YJ10014	BJ11140	Y1J2044	LCS	BJ11140-BS1	GCECD4	PS438386.d
YJ10014	Y1J2044	Y1J2044	Calibration Check	Y1J2044-CCV2	GCECD4	PS438389.d
YJ10014	BJ11140	Y1J2044	TP-1_10.13.2021 (0-4)	21J0624-01	GCECD4	PS438401.d
YJ10014	BJ11140	Y1J2044	TP-2_10.13.2021 (10-12)	21J0624-02	GCECD4	PS438402.d
YJ10014	BJ11140	Y1J2044	TP-3_10.13.2021 (10-11)	21J0624-03	GCECD4	PS438403.d
YJ10014	BJ11140	Y1J2044	TP-4_10.13.2021 (5-6)	21J0624-04	GCECD4	PS438404.d
YJ10014	BJ11140	Y1J2044	TP-5_10.13.2021 (1-2)	21J0624-05	GCECD4	PS438405.d
YJ10014	Y1J2044	Y1J2044	Calibration Check	Y1J2044-CCV3	GCECD4	PS438411.d

Initial calibration for EPA 8151A met method guidelines.

EPA 8151A

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
YJ10014	Y1J2044	Y1J2044-CCV1	PS438384.d	10/20/21 16:42
YJ10014	Y1J2044	Y1J2044-CCV2	PS438389.d	10/20/21 17:35
YJ10014	Y1J2044	Y1J2044-CCV3	PS438411.d	10/20/21 21:40

The continuing calibration verification recovered within method limits.

York Analytical Work Order Narrative

EPA 8151A

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
HERB	BJ11140	Y1J2044	GCECD4	BJ11140-BLK1	PS438385.d

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
YJ10014	Y1J2044	BJ11140-BS1	LCS	PS438386.d

EPA 8151A

Dilutions: No sample dilutions were required.

EPA 8151A

Internal Standards / Surrogates

Surrogate Issues: No issues were encountered.

York Analytical Work Order Narrative

4.0 Analysis Issues

CT DEP ETPH

No problems were encountered with analysis of the samples, other than detailed below.

Calibration none

Samples and QC analyzed using this calibration / sequence.

<i>Initial calibration for</i>	<i>CT DEP ETPH</i>	<i>met method guidelines.</i>
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CT DEP ETPH

Continuing Calibration Verification-

The continuing calibration verification recovered within method limits.

CT DEP ETPH

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
none		BJ11003-BS1	LCS	G8000660.D
none		BJ11095-BS1	LCS	G8000690.D

CT DEP ETPH

Dilutions: No sample dilutions were required.

CT DEP ETPH

Internal Standards / Surrogates

Surrogate Issues: No issues were encountered.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 6010D

No problems were encountered with analysis of the samples, other than detailed below.

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
	Y1J2117	Y1J2117	Initial Cal Check	Y1J2117-ICV1	WinLabICP	QBI102121ARE_1-001
	Y1J2117	Y1J2117	Initial Cal Blank	Y1J2117-ICB1	WinLabICP	QBI102121ARE_1-002
	Y1J2117	Y1J2117	Instrument RL Check	Y1J2117-CRL1	WinLabICP	QBI102121ARE_1-003
	Y1J2117	Y1J2117	Interference Check A	Y1J2117-IFA1	WinLabICP	QBI102121ARE_1-005
	Y1J2117	Y1J2117	Interference Check B	Y1J2117-IFB1	WinLabICP	QBI102121ARE_1-006
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCV1	WinLabICP	QBI102121ARE_1-007
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCB1	WinLabICP	QBI102121ARE_1-008
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCV7	WinLabICP	QBI102121ARE_1-009
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCB7	WinLabICP	QBI102121ARE_1-010
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCV8	WinLabICP	QBI102121ARE_1-013
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCB8	WinLabICP	QBI102121ARE_1-014
	BJ11049	Y1J2117	TP-1_10.13.2021 (0-4)	21J0624-01	WinLabICP	QBI102121ARE_1-017
	BJ11049	Y1J2117	TP-2_10.13.2021 (10-12)	21J0624-02	WinLabICP	QBI102121ARE_1-018
	BJ11049	Y1J2117	TP-3_10.13.2021 (10-11)	21J0624-03	WinLabICP	QBI102121ARE_1-019
	BJ11049	Y1J2117	TP-4_10.13.2021 (5-6)	21J0624-04	WinLabICP	QBI102121ARE_1-020
	BJ11049	Y1J2117	TP-5_10.13.2021 (1-2)	21J0624-05	WinLabICP	QBI102121ARE_1-021
	BJ11049	Y1J2117	GS-1_10.13.2021	21J0624-06	WinLabICP	QBI102121ARE_1-022
	BJ11049	Y1J2117	GS-2_10.13.2021	21J0624-07	WinLabICP	QBI102121ARE_1-023
	BJ11049	Y1J2117	GS-3_10.13.2021	21J0624-08	WinLabICP	QBI102121ARE_1-024
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCV9	WinLabICP	QBI102121ARE_1-025
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCV5	WinLabICP	QBI102121ARE_1-055
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCB5	WinLabICP	QBI102121ARE_1-056
	BJ11049	Y1J2117	Blank	BJ11049-BLK1	WinLabICP	QBI102121ARE_1-061
	BJ11049	Y1J2117	Reference	BJ11049-SRM1	WinLabICP	QBI102121ARE_1-062
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCV6	WinLabICP	QBI102121ARE_1-067
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCB6	WinLabICP	QBI102121ARE_1-068
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCB9	WinLabICP	QBI102121ARE_1-106
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCVC	WinLabICP	QBI102121ARE_1-143
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCBC	WinLabICP	QBI102121ARE_1-144
	Y1J2117	Y1J2117	Calibration Check	Y1J2117-CCVD	WinLabICP	QBI102121ARE_1-149
	Y1J2117	Y1J2117	Calibration Blank	Y1J2117-CCBD	WinLabICP	QBI102121ARE_1-150

Initial calibration for EPA 6010D met method guidelines.

York Analytical Work Order Narrative

EPA 6010D

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
	Y1J2117	Y1J2117-CCV1	QBI102121ARE_1-007	10/21/21 09:12
	Y1J2117	Y1J2117-CCV5	QBI102121ARE_1-055	10/21/21 11:34
	Y1J2117	Y1J2117-CCV6	QBI102121ARE_1-067	10/21/21 12:08
	Y1J2117	Y1J2117-CCV7	QBI102121ARE_1-009	10/21/21 12:42
	Y1J2117	Y1J2117-CCV8	QBI102121ARE_1-013	10/21/21 13:16
	Y1J2117	Y1J2117-CCV9	QBI102121ARE_1-025	10/21/21 13:46
	Y1J2117	Y1J2117-CCVC	QBI102121ARE_1-143	10/21/21 15:33
	Y1J2117	Y1J2117-CCVD	QBI102121ARE_1-149	10/21/21 15:52
	Y1J2117	Y1J2117-ICV1	QBI102121ARE_1-001	10/21/21 08:54

The continuing calibration verification exceeded method limits for the following analytes.

Calibration	LabNumber	Analyte	Units	Result	TrueVal	REC%	Limits	File ID
	Y1J2117-CCV5	Silver	ug/mL	1.53	1.25	123	90 110	QBI102121ARE_1-055
	Y1J2117-CCV6	Silver	ug/mL	1.52	1.25	122	90 110	QBI102121ARE_1-067
	Y1J2117-CCV7	Silver	ug/mL	1.58	1.25	126	90 110	QBI102121ARE_1-009
	Y1J2117-CCV8	Silver	ug/mL	1.59	1.25	127	90 110	QBI102121ARE_1-013
	Y1J2117-CCV9	Silver	ug/mL	1.62	1.25	130	90 110	QBI102121ARE_1-025

The following QC and or client samples were affected:

Calibration	Sequence	LabNumber	SampleName	Source Sample	File ID
	Y1J2117	Y1J2117-ICB1	Initial Cal Blank		QBI102121ARE_1-002
	Y1J2117	Y1J2117-IFA1	Interference Check A		QBI102121ARE_1-005
	Y1J2117	Y1J2117-IFB1	Interference Check B		QBI102121ARE_1-006
	Y1J2117	Y1J2117-CCB1	Calibration Blank		QBI102121ARE_1-008
	Y1J2117	Y1J2117-CCB7	Calibration Blank		QBI102121ARE_1-010
	Y1J2117	Y1J2117-CCB8	Calibration Blank		QBI102121ARE_1-014
	Y1J2117	Y1J2117-CCB5	Calibration Blank		QBI102121ARE_1-056
	Y1J2117	BJ11049-SRM1	Reference		QBI102121ARE_1-062
	Y1J2117	Y1J2117-CCB6	Calibration Blank		QBI102121ARE_1-068
	Y1J2117	Y1J2117-CCB9	Calibration Blank		QBI102121ARE_1-106
	Y1J2117	Y1J2117-CCBC	Calibration Blank		QBI102121ARE_1-144
	Y1J2117	Y1J2117-CCBD	Calibration Blank		QBI102121ARE_1-150

York Analytical Work Order Narrative

EPA 6010D

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
METALS	BJ11049	Y1J2117	WinLabICP	BJ11049-BLK1	QBI102121ARE_1-061

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID				
UNASSIGNED	Y1J2117	BJ11049-SRM1	Reference	QBI102121ARE_1-062				
Sequence	SampleName	LabNumber	Analyte	DupRec%	Rec%	RPD%	REC Limits	RPD Limit
Y1J2117	Reference	BJ11049-SRM1	Barium		128		74. - 124.7	
Y1J2117	Reference	BJ11049-SRM1	Copper		128		74. - 125	
Y1J2117	Reference	BJ11049-SRM1	Nickel		132		69. - 129.9	

The following samples were affected:

Batch	LabNumber	SampleName	SourceSample
BJ11049	21J0624-01	TP-1_10.13.2021 (0-4	
BJ11049	21J0624-02	TP-2_10.13.2021 (10-	
BJ11049	21J0624-03	TP-3_10.13.2021 (10-	
BJ11049	21J0624-04	TP-4_10.13.2021 (5-6	
BJ11049	21J0624-05	TP-5_10.13.2021 (1-2	
BJ11049	21J0624-06	GS-1_10.13.2021	
BJ11049	21J0624-07	GS-2_10.13.2021	
BJ11049	21J0624-08	GS-3_10.13.2021	
BJ11049	BJ11049-SRM1	Reference	
Y1J2117	Y1J2117-ICB1	Initial Cal Blank	
Y1J2117	Y1J2117-IFA1	Interference Check A	
Y1J2117	Y1J2117-IFB1	Interference Check B	

EPA 6010D

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 7473

No problems were encountered with analysis of the samples, other than detailed below.

Samples and QC analyzed using this calibration / sequence.

Calibration	Batch	Sequence	SampleName	LabNumber	Instrument	File ID
	Y1J2120	Y1J2120	Low Cal Check	Y1J2120-LCV1	DMA 80-01 QBHg-DMA80-02	102121a-014
	Y1J2120	Y1J2120	High Cal Check	Y1J2120-HCV1	DMA 80-01 QBHg-DMA80-02	102121a-016
	BJ11244	Y1J2120	Blank	BJ11244-BLK1	DMA 80-01 QBHg-DMA80-02	102121a-019
	BJ11244	Y1J2120	Reference	BJ11244-SRM1	DMA 80-01 QBHg-DMA80-02	102121a-020
	BJ11244	Y1J2120	TP-1_10.13.2021 (0-4)	21J0624-01	DMA 80-01 QBHg-DMA80-02	102121a-025
	BJ11244	Y1J2120	TP-1_10.13.2021 (0-4)DUP1	BJ11244-DUP1	DMA 80-01 QBHg-DMA80-02	102121a-026
	BJ11244	Y1J2120	TP-1_10.13.2021 (0-4)MS1	BJ11244-MS1	DMA 80-01 QBHg-DMA80-02	102121a-027
	BJ11244	Y1J2120	TP-2_10.13.2021 (10-12)	21J0624-02	DMA 80-01 QBHg-DMA80-02	102121a-028
	BJ11244	Y1J2120	TP-3_10.13.2021 (10-11)	21J0624-03	DMA 80-01 QBHg-DMA80-02	102121a-029
	BJ11244	Y1J2120	TP-4_10.13.2021 (5-6)	21J0624-04	DMA 80-01 QBHg-DMA80-02	102121a-030
	BJ11244	Y1J2120	TP-5_10.13.2021 (1-2)	21J0624-05	DMA 80-01 QBHg-DMA80-02	102121a-031
	BJ11244	Y1J2120	GS-1_10.13.2021	21J0624-06	DMA 80-01 QBHg-DMA80-02	102121a-032
	BJ11244	Y1J2120	GS-2_10.13.2021	21J0624-07	DMA 80-01 QBHg-DMA80-02	102121a-033
	BJ11244	Y1J2120	GS-3_10.13.2021	21J0624-08	DMA 80-01 QBHg-DMA80-02	102121a-034
	Y1J2120	Y1J2120	Calibration Check	Y1J2120-CCV1	DMA 80-01 QBHg-DMA80-02	102121a-037
	Y1J2120	Y1J2120	Calibration Blank	Y1J2120-CCB1	DMA 80-01 QBHg-DMA80-02	102121a-038
	Y1J2120	Y1J2120	Calibration Check	Y1J2120-CCV2	DMA 80-01 QBHg-DMA80-02	102221a-022
	Y1J2120	Y1J2120	Calibration Blank	Y1J2120-CCB2	DMA 80-01 QBHg-DMA80-02	102221a-023

Initial calibration for EPA 7473 met method guidelines.

EPA 7473

Continuing Calibration Verification-

Calibration	Sequence	LabNumber	File ID	Date / Time
	Y1J2120	Y1J2120-CCV1	QBHg-DMA80-02 102121a-037	10/21/21 15:54
	Y1J2120	Y1J2120-CCV2	QBHg-DMA80-02 102221a-022	10/22/21 12:06

The continuing calibration verification recovered within method limits.

York Analytical Work Order Narrative

EPA 7473

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

	Batch	Sequence	Instrument	Blank	FileID
HG	BJ11244	Y1J2120	DMA 80-01	BJ11244-BLK1	QBHg-DMA80-02 102121a-019

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
UNASSIGNED	Y1J2120	BJ11244-SRM1	Reference	QBHg-DMA80-02 102121a-020

EPA 7473

Matrix Spike, Matrix Spike Duplicate and/or Sample Duplicate-

MS/MSD/Duplicate analysis was performed on sample;

AnaClass	Cal	Batch	Sequence	SampleName	Sample	SourceSample	LabNumber
HG		BJ11244	Y1J2120	TP-1_10.13.2021 (0-4)DU	21J0624-01	TP-1_10.13.2021 (0-	BJ11244-DUP1
HG		BJ11244	Y1J2120	TP-1_10.13.2021 (0-4)MS	21J0624-01	TP-1_10.13.2021 (0-	BJ11244-MS1

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

4.0 Analysis Issues

ASTM 1498-08 M

No problems were encountered with analysis of the samples, other than detailed below.

Calibration none

Samples and QC analyzed using this calibration / sequence.

Initial calibration for ASTM 1498-08 M met method guidelines.

ASTM 1498-08 M

Continuing Calibration Verification-

The continuing calibration verification recovered within method limits.

ASTM 1498-08 M

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

ASTM 1498-08 M

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 7196A

No problems were encountered with analysis of the samples, other than detailed below.

Calibration none

Samples and QC analyzed using this calibration / sequence.

<i>Initial calibration for</i>	<i>EPA 7196A</i>	<i>met method guidelines.</i>
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EPA 7196A

Continuing Calibration Verification-

The continuing calibration verification recovered within method limits.

EPA 7196A

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
none		BJ10844-SRM1	Reference	
none		BJ10975-BS1	LCS	

EPA 7196A

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 9014/9010C

No problems were encountered with analysis of the samples, other than detailed below.

Calibration none

Samples and QC analyzed using this calibration / sequence.

Initial calibration for EPA 9014/9010C met method guidelines.

EPA 9014/9010C

Continuing Calibration Verification-

The continuing calibration verification recovered within method limits.

EPA 9014/9010C

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

Calibration	Sequence	LabNumber	SampleName	File ID
none		BJ11061-SRM1	Reference	

EPA 9014/9010C

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

4.0 Analysis Issues

EPA 9045D

No problems were encountered with analysis of the samples, other than detailed below.

Calibration none

Samples and QC analyzed using this calibration / sequence.

<i>Initial calibration for</i>	<i>EPA 9045D</i>	<i>met method guidelines.</i>
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EPA 9045D

Continuing Calibration Verification-

The continuing calibration verification recovered within method limits.

EPA 9045D

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

EPA 9045D

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

4.0 Analysis Issues

SM 2540G

No problems were encountered with analysis of the samples, other than detailed below.

Calibration none

Samples and QC analyzed using this calibration / sequence.

<i>Initial calibration for</i>	<i>SM 2540G</i>	<i>met method guidelines.</i>
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SM 2540G

Continuing Calibration Verification-

The continuing calibration verification recovered within method limits.

SM 2540G

Batch QC

Method Blank- No reportable target compounds were detected in the method blank(s)

Laboratory Control Sample (LCS) or Standard Reference Material (SRM)-

Were run as batch QC for this project. Please refer to the Quality Control Data attached to this report for bias information.

SM 2540G

Dilutions: No sample dilutions were required.

York Analytical Work Order Narrative

York Analytical Laboratories, Inc. **Formulae Used for Sample Calculations**

1. **Volatiles in Air-ppbv**

Cx (ppbv) = Compound concentration, ppbv (parts per billion by volume)

$$C_x = \frac{(A_x)(C_{is})(DF)}{(A_{is})(RRF)}$$

2. **Volatiles in Air-ug/m³**

Cx (ug/m³) = Compound concentration in ug/m³

$$C_x (\text{ug/m}^3) = \frac{(\text{ppbv} \times \text{Molecular wt.})}{(24.040)}$$

3. **Volatile Organics (water and soil), ug/L or ug/kg**

Soils/Waters

Medium Level Soils

$$C_x = \frac{(A_x)(IS)(DF)}{(A_{is})(RRF)(V)(\% \text{ solids})}$$

$$C_x = \frac{(A_x)(IS)(VT)(1000)(DF)}{(A_{is})(RRF)(VA)(V)(\% \text{ solids})}$$

4. **Semi-Volatiles (waters and soils)**

$$C_x = \frac{(A_x)(IS)(VE)(DF)}{(A_{is})(RRF)(\text{Volume injected, uL})(V)(\% \text{ solids})}$$

5. **Pesticides/PCB (waters and soils), DRO, CTETPH**

$$C_x = \frac{(A_x)(VE)(DF)}{(CF)(\text{Volume injected, uL})(V)(\% \text{ solids})}$$

WHERE:

Cx = concentration of analyte as ug/L or ug/kg

Ax = Area of the characteristic ion for the compound to be measured, counts.

Ais = Area of the characteristic ion for the specific internal standard, counts.

IS = Concentration of the internal standard spiking mixture, ng

RRF = Mean relative response factor from the initial calibration.

DF = Dilution factor calculated as described in section 2. If no dilution is performed, DF= 1

V = Volume for liquids in mL, weight for soils/solids in grams.

VA = volume of MeOH aliquot for medium level soils

VE = final volume of concentrated extract

VT = volume of MeOH for volatiles medium level soils

CF = calibration factor for external calibration used in GC pest/pcb

Cis = Concentration of the internal standard spiking mixture, ppbv



Analytical Batch Summary

Batch ID: BJ10844

Preparation Method: EPA SW846-3060

Prepared By: ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/14/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/14/21
BJ10844-BLK1	Blank	10/14/21
BJ10844-DUP1	Duplicate	10/14/21
BJ10844-MS1	Matrix Spike	10/14/21
BJ10844-SRM1	Reference	10/14/21

Batch ID: BJ10942

Preparation Method: EPA 5030B

Prepared By: PD

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-09	Trip Blanks	10/15/21
BJ10942-BLK1	Blank	10/15/21
BJ10942-BS1	LCS	10/15/21
BJ10942-BSD1	LCS Dup	10/15/21

Batch ID: BJ10948

Preparation Method: EPA 5035A

Prepared By: OC

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/15/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/15/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/15/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/15/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/15/21
BJ10948-BLK1	Blank	10/15/21
BJ10948-BLK2	Blank	10/15/21
BJ10948-BLK3	Blank	10/15/21
BJ10948-BS1	LCS	10/15/21
BJ10948-BSD1	LCS Dup	10/15/21

Batch ID: BJ10975

Preparation Method: EPA SW846-3060

Prepared By: JAMT

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-03	TP-3_10.13.2021 (10-11)	10/18/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/18/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/18/21
BJ10975-BLK1	Blank	10/18/21
BJ10975-BS1	LCS	10/18/21

Batch ID: BJ11002

Preparation Method: EPA 3546- SVOA RCP

Prepared By: EMS

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/18/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/18/21



21J0624-03	TP-3_10.13.2021 (10-11)	10/18/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/18/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/18/21
BJ11002-BLK1	Blank	10/18/21
BJ11002-BS1	LCS	10/18/21

Batch ID: BJ11003 **Preparation Method:** EPA 3546 ETPH **Prepared By:** EMS

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-03	TP-3_10.13.2021 (10-11)	10/18/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/18/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/18/21
BJ11003-BLK1	Blank	10/18/21
BJ11003-BS1	LCS	10/18/21

Batch ID: BJ11013 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/18/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/18/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/18/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/18/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/18/21

Batch ID: BJ11043 **Preparation Method:** Analysis Preparation **Prepared By:** ZTS

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/18/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/18/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/18/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/18/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/18/21
BJ11043-DUP1	Duplicate	10/18/21

Batch ID: BJ11049 **Preparation Method:** EPA 3050B **Prepared By:** K T

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/18/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/18/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/18/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/18/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/18/21
21J0624-06	GS-1_10.13.2021	10/18/21
21J0624-07	GS-2_10.13.2021	10/18/21
21J0624-08	GS-3_10.13.2021	10/18/21
BJ11049-BLK1	Blank	10/18/21
BJ11049-SRM1	Reference	10/18/21

**Batch ID:** BJ11059**Preparation Method:** EPA 3545A**Prepared By:** SJB

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/19/21
21J0624-01	TP-1_10.13.2021 (0-4)	10/19/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/19/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/19/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/19/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/19/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/19/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/19/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/19/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/19/21
21J0624-06	GS-1_10.13.2021	10/19/21
21J0624-07	GS-2_10.13.2021	10/19/21
21J0624-08	GS-3_10.13.2021	10/19/21
BJ11059-BLK1	Blank	10/19/21
BJ11059-BLK2	Blank	10/19/21
BJ11059-BS1	LCS	10/19/21
BJ11059-BS2	LCS	10/19/21
BJ11059-MS2	Matrix Spike	10/19/21
BJ11059-MSD2	Matrix Spike Dup	10/19/21

Batch ID: BJ11061**Preparation Method:** Analysis Preparation Soil**Prepared By:** JAMT

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/19/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/19/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/19/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/19/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/19/21
BJ11061-BLK1	Blank	10/19/21
BJ11061-SRM1	Reference	10/19/21

Batch ID: BJ11092**Preparation Method:** % Solids Prep**Prepared By:** VR

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/19/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/19/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/19/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/19/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/19/21
21J0624-06	GS-1_10.13.2021	10/19/21
21J0624-07	GS-2_10.13.2021	10/19/21
21J0624-08	GS-3_10.13.2021	10/19/21

Batch ID: BJ11095**Preparation Method:** EPA 3546 ETPH**Prepared By:** EMS

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/19/21



21J0624-02	TP-2_10.13.2021 (10-12)	10/19/21
BJ11095-BLK1	Blank	10/19/21
BJ11095-BS1	LCS	10/19/21

Batch ID: BJ11140 **Preparation Method:** EPA 3550C/8151A **Prepared By:** RTH

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/20/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/20/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/20/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/20/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/20/21
BJ11140-BLK1	Blank	10/20/21
BJ11140-BS1	LCS	10/20/21

Batch ID: BJ11244 **Preparation Method:** EPA 7473 soil **Prepared By:** BR

YORK Sample ID	Client Sample ID	Preparation Date
21J0624-01	TP-1_10.13.2021 (0-4)	10/21/21
21J0624-02	TP-2_10.13.2021 (10-12)	10/21/21
21J0624-03	TP-3_10.13.2021 (10-11)	10/21/21
21J0624-04	TP-4_10.13.2021 (5-6)	10/21/21
21J0624-05	TP-5_10.13.2021 (1-2)	10/21/21
21J0624-06	GS-1_10.13.2021	10/21/21
21J0624-07	GS-2_10.13.2021	10/21/21
21J0624-08	GS-3_10.13.2021	10/21/21
BJ11244-BLK1	Blank	10/21/21
BJ11244-DUP1	Duplicate	10/21/21
BJ11244-MS1	Matrix Spike	10/21/21
BJ11244-SRM1	Reference	10/21/21



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10942 - EPA 5030B

Blank (BJ10942-BLK1)

Prepared & Analyzed: 10/15/2021

1,1,1,2-Tetrachloroethane	ND	0.500	ug/L
1,1,1-Trichloroethane	ND	0.500	"
1,1,2,2-Tetrachloroethane	ND	0.500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"
1,1,2-Trichloroethane	ND	0.500	"
1,1-Dichloroethane	ND	0.500	"
1,1-Dichloroethylene	ND	0.500	"
1,1-Dichloropropylene	ND	0.500	"
1,2,3-Trichlorobenzene	ND	0.500	"
1,2,3-Trichloropropane	ND	0.500	"
1,2,4-Trichlorobenzene	ND	0.500	"
1,2,4-Trimethylbenzene	ND	0.500	"
1,2-Dibromo-3-chloropropane	ND	0.500	"
1,2-Dibromoethane	ND	0.500	"
1,2-Dichlorobenzene	ND	0.500	"
1,2-Dichloroethane	ND	0.500	"
1,2-Dichloropropane	ND	0.500	"
1,3,5-Trimethylbenzene	ND	0.500	"
1,3-Dichlorobenzene	ND	0.500	"
1,3-Dichloropropane	ND	0.500	"
1,4-Dichlorobenzene	ND	0.500	"
2,2-Dichloropropane	ND	0.500	"
2-Butanone	ND	0.500	"
2-Chlorotoluene	ND	0.500	"
2-Hexanone	ND	0.500	"
4-Chlorotoluene	ND	0.500	"
4-Methyl-2-pentanone	ND	0.500	"
Acetone	ND	2.00	"
Acrylonitrile	ND	0.500	"
Benzene	ND	0.500	"
Bromobenzene	ND	0.500	"
Bromochloromethane	ND	0.500	"
Bromodichloromethane	ND	0.500	"
Bromoform	ND	0.500	"
Bromomethane	ND	0.500	"
Carbon disulfide	ND	0.500	"
Carbon tetrachloride	ND	0.500	"
Chlorobenzene	ND	0.500	"
Chloroethane	ND	0.500	"
Chloroform	ND	0.500	"
Chloromethane	ND	0.500	"
cis-1,2-Dichloroethylene	ND	0.500	"
cis-1,3-Dichloropropylene	ND	0.500	"
Dibromochloromethane	ND	0.500	"
Dibromomethane	ND	0.500	"
Dichlorodifluoromethane	ND	0.500	"
Ethyl Benzene	ND	0.500	"
Hexachlorobutadiene	ND	0.500	"
Isopropylbenzene	ND	0.500	"
Methyl Methacrylate	ND	0.500	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10942 - EPA 5030B

Blank (BJ10942-BLK1)

Prepared & Analyzed: 10/15/2021

Methyl tert-butyl ether (MTBE)	ND	0.500	ug/L								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Tetrahydrofuran	ND	4.00	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
trans-1,4-dichloro-2-butene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	10.1		"	10.0		101	70-130				
Surrogate: SURR: Toluene-d8	8.69		"	10.0		86.9	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.46		"	10.0		94.6	70-130				

LCS (BJ10942-BS1)

Prepared & Analyzed: 10/15/2021

1,1,1,2-Tetrachloroethane	8.65		ug/L	10.0		86.5	70-130				
1,1,1-Trichloroethane	10.9		"	10.0		109	70-130				
1,1,2,2-Tetrachloroethane	9.91		"	10.0		99.1	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.6		"	10.0		126	70-130				
1,1,2-Trichloroethane	9.35		"	10.0		93.5	70-130				
1,1-Dichloroethane	11.1		"	10.0		111	70-130				
1,1-Dichloroethylene	11.4		"	10.0		114	70-130				
1,1-Dichloropropylene	10.7		"	10.0		107	70-130				
1,2,3-Trichlorobenzene	8.54		"	10.0		85.4	70-130				
1,2,3-Trichloropropane	8.91		"	10.0		89.1	70-130				
1,2,4-Trichlorobenzene	8.62		"	10.0		86.2	70-130				
1,2,4-Trimethylbenzene	8.41		"	10.0		84.1	70-130				
1,2-Dibromo-3-chloropropane	6.89		"	10.0		68.9	70-130		Low Bias		
1,2-Dibromoethane	9.64		"	10.0		96.4	70-130				
1,2-Dichlorobenzene	8.59		"	10.0		85.9	70-130				
1,2-Dichloroethane	11.2		"	10.0		112	70-130				
1,2-Dichloropropane	8.95		"	10.0		89.5	70-130				
1,3,5-Trimethylbenzene	8.32		"	10.0		83.2	70-130				
1,3-Dichlorobenzene	8.63		"	10.0		86.3	70-130				
1,3-Dichloropropane	9.13		"	10.0		91.3	70-130				
1,4-Dichlorobenzene	8.57		"	10.0		85.7	70-130				
2,2-Dichloropropane	10.8		"	10.0		108	70-130				
2-Butanone	12.3		"	10.0		123	70-130				
2-Chlorotoluene	8.31		"	10.0		83.1	70-130				
2-Hexanone	8.06		"	10.0		80.6	70-130				
4-Chlorotoluene	8.30		"	10.0		83.0	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10942 - EPA 5030B											
LCS (BJ10942-BS1)						Prepared & Analyzed: 10/15/2021					
4-Methyl-2-pentanone	7.85		ug/L	10.0		78.5	70-130				
Acetone	9.13		"	10.0		91.3	70-130				
Acrylonitrile	10.6		"	10.0		106	70-130				
Benzene	11.7		"	10.0		117	70-130				
Bromobenzene	8.30		"	10.0		83.0	70-130				
Bromochloromethane	10.9		"	10.0		109	70-130				
Bromodichloromethane	8.57		"	10.0		85.7	70-130				
Bromoform	8.68		"	10.0		86.8	70-130				
Bromomethane	11.0		"	10.0		110	70-130				
Carbon disulfide	12.4		"	10.0		124	70-130				
Carbon tetrachloride	10.6		"	10.0		106	70-130				
Chlorobenzene	9.42		"	10.0		94.2	70-130				
Chloroethane	12.9		"	10.0		129	70-130				
Chloroform	11.4		"	10.0		114	70-130				
Chloromethane	14.4		"	10.0		144	70-130	High Bias			
cis-1,2-Dichloroethylene	10.8		"	10.0		108	70-130				
cis-1,3-Dichloropropylene	8.62		"	10.0		86.2	70-130				
Dibromochloromethane	8.73		"	10.0		87.3	70-130				
Dibromomethane	9.44		"	10.0		94.4	70-130				
Dichlorodifluoromethane	17.2		"	10.0		172	70-130	High Bias			
Ethyl Benzene	8.89		"	10.0		88.9	70-130				
Hexachlorobutadiene	8.72		"	10.0		87.2	70-130				
Isopropylbenzene	8.62		"	10.0		86.2	70-130				
Methyl Methacrylate	9.53		"	10.0		95.3	70-130				
Methyl tert-butyl ether (MTBE)	12.4		"	10.0		124	70-130				
Methylene chloride	11.1		"	10.0		111	70-130				
Naphthalene	8.12		"	10.0		81.2	70-130				
n-Butylbenzene	8.34		"	10.0		83.4	70-130				
n-Propylbenzene	8.37		"	10.0		83.7	70-130				
o-Xylene	8.94		"	10.0		89.4	70-130				
p- & m- Xylenes	17.8		"	20.0		89.1	70-130				
p-Isopropyltoluene	8.50		"	10.0		85.0	70-130				
sec-Butylbenzene	8.63		"	10.0		86.3	70-130				
Styrene	8.83		"	10.0		88.3	70-130				
tert-Butylbenzene	8.17		"	10.0		81.7	70-130				
Tetrachloroethylene	6.03		"	10.0		60.3	70-130	Low Bias			
Tetrahydrofuran	13.2		"	10.0		132	70-130	High Bias			
Toluene	8.98		"	10.0		89.8	70-130				
trans-1,2-Dichloroethylene	11.0		"	10.0		110	70-130				
trans-1,3-Dichloropropylene	8.52		"	10.0		85.2	70-130				
trans-1,4-dichloro-2-butene	9.86		"	10.0		98.6	70-130				
Trichloroethylene	8.64		"	10.0		86.4	70-130				
Trichlorofluoromethane	12.8		"	10.0		128	70-130				
Vinyl Chloride	13.3		"	10.0		133	70-130	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	10.3		"	10.0		103	70-130				
Surrogate: SURR: Toluene-d8	8.90		"	10.0		89.0	70-130				
Surrogate: SURR: p-Bromofluorobenzene	9.63		"	10.0		96.3	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10942 - EPA 5030B											
LCS Dup (BJ10942-BSD1)						Prepared & Analyzed: 10/15/2021					
1,1,1,2-Tetrachloroethane	9.59		ug/L	10.0		95.9	70-130		10.3	30	
1,1,1-Trichloroethane	12.0		"	10.0		120	70-130		9.17	30	
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	70-130		11.2	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	13.4		"	10.0		134	70-130	High Bias	6.69	30	
1,1,2-Trichloroethane	10.4		"	10.0		104	70-130		10.7	30	
1,1-Dichloroethane	11.8		"	10.0		118	70-130		5.94	30	
1,1-Dichloroethylene	12.3		"	10.0		123	70-130		7.95	30	
1,1-Dichloropropylene	11.6		"	10.0		116	70-130		8.33	30	
1,2,3-Trichlorobenzene	9.89		"	10.0		98.9	70-130		14.7	30	
1,2,3-Trichloropropane	9.37		"	10.0		93.7	70-130		5.03	30	
1,2,4-Trichlorobenzene	9.64		"	10.0		96.4	70-130		11.2	30	
1,2,4-Trimethylbenzene	9.09		"	10.0		90.9	70-130		7.77	30	
1,2-Dibromo-3-chloropropane	7.86		"	10.0		78.6	70-130		13.2	30	
1,2-Dibromoethane	10.7		"	10.0		107	70-130		10.6	30	
1,2-Dichlorobenzene	9.38		"	10.0		93.8	70-130		8.79	30	
1,2-Dichloroethane	12.2		"	10.0		122	70-130		8.70	30	
1,2-Dichloropropane	9.85		"	10.0		98.5	70-130		9.57	30	
1,3,5-Trimethylbenzene	8.94		"	10.0		89.4	70-130		7.18	30	
1,3-Dichlorobenzene	9.31		"	10.0		93.1	70-130		7.58	30	
1,3-Dichloropropane	10.2		"	10.0		102	70-130		11.2	30	
1,4-Dichlorobenzene	9.47		"	10.0		94.7	70-130		9.98	30	
2,2-Dichloropropane	11.6		"	10.0		116	70-130		7.21	30	
2-Butanone	12.7		"	10.0		127	70-130		2.96	30	
2-Chlorotoluene	8.96		"	10.0		89.6	70-130		7.53	30	
2-Hexanone	8.71		"	10.0		87.1	70-130		7.75	30	
4-Chlorotoluene	9.07		"	10.0		90.7	70-130		8.87	30	
4-Methyl-2-pentanone	8.83		"	10.0		88.3	70-130		11.8	30	
Acetone	9.03		"	10.0		90.3	70-130		1.10	30	
Acrylonitrile	12.1		"	10.0		121	70-130		13.3	30	
Benzene	12.5		"	10.0		125	70-130		6.78	30	
Bromobenzene	9.19		"	10.0		91.9	70-130		10.2	30	
Bromochloromethane	11.8		"	10.0		118	70-130		8.12	30	
Bromodichloromethane	9.36		"	10.0		93.6	70-130		8.81	30	
Bromoform	9.44		"	10.0		94.4	70-130		8.39	30	
Bromomethane	12.2		"	10.0		122	70-130		10.6	30	
Carbon disulfide	13.4		"	10.0		134	70-130	High Bias	7.75	30	
Carbon tetrachloride	11.8		"	10.0		118	70-130		11.2	30	
Chlorobenzene	10.3		"	10.0		103	70-130		8.54	30	
Chloroethane	13.8		"	10.0		138	70-130	High Bias	6.97	30	
Chloroform	12.3		"	10.0		123	70-130		7.01	30	
Chloromethane	15.8		"	10.0		158	70-130	High Bias	9.56	30	
cis-1,2-Dichloroethylene	11.8		"	10.0		118	70-130		8.61	30	
cis-1,3-Dichloropropylene	9.39		"	10.0		93.9	70-130		8.55	30	
Dibromochloromethane	9.70		"	10.0		97.0	70-130		10.5	30	
Dibromomethane	10.2		"	10.0		102	70-130		8.13	30	
Dichlorodifluoromethane	18.6		"	10.0		186	70-130	High Bias	7.72	30	
Ethyl Benzene	9.69		"	10.0		96.9	70-130		8.61	30	
Hexachlorobutadiene	9.88		"	10.0		98.8	70-130		12.5	30	
Isopropylbenzene	9.37		"	10.0		93.7	70-130		8.34	30	
Methyl Methacrylate	10.4		"	10.0		104	70-130		8.44	30	
Methyl tert-butyl ether (MTBE)	13.1		"	10.0		131	70-130	High Bias	5.34	30	



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10942 - EPA 5030B

LCS Dup (BJ10942-BSD1)

Prepared & Analyzed: 10/15/2021

Methylene chloride	12.0		ug/L	10.0		120	70-130		7.96	30
Naphthalene	9.29		"	10.0		92.9	70-130		13.4	30
n-Butylbenzene	9.27		"	10.0		92.7	70-130		10.6	30
n-Propylbenzene	9.09		"	10.0		90.9	70-130		8.25	30
o-Xylene	9.68		"	10.0		96.8	70-130		7.95	30
p- & m- Xylenes	19.2		"	20.0		96.2	70-130		7.66	30
p-Isopropyltoluene	9.25		"	10.0		92.5	70-130		8.45	30
sec-Butylbenzene	9.50		"	10.0		95.0	70-130		9.60	30
Styrene	9.68		"	10.0		96.8	70-130		9.18	30
tert-Butylbenzene	8.83		"	10.0		88.3	70-130		7.76	30
Tetrachloroethylene	6.56		"	10.0		65.6	70-130	Low Bias	8.42	30
Tetrahydrofuran	15.6		"	10.0		156	70-130	High Bias	16.7	30
Toluene	9.71		"	10.0		97.1	70-130		7.81	30
trans-1,2-Dichloroethylene	11.9		"	10.0		119	70-130		7.59	30
trans-1,3-Dichloropropylene	9.24		"	10.0		92.4	70-130		8.11	30
trans-1,4-dichloro-2-butene	9.09		"	10.0		90.9	70-130		8.13	30
Trichloroethylene	9.37		"	10.0		93.7	70-130		8.11	30
Trichlorofluoromethane	14.0		"	10.0		140	70-130	High Bias	8.79	30
Vinyl Chloride	14.6		"	10.0		146	70-130	High Bias	9.41	30
Surrogate: SURR: 1,2-Dichloroethane-d4	10.2		"	10.0		102	70-130			
Surrogate: SURR: Toluene-d8	8.70		"	10.0		87.0	70-130			
Surrogate: SURR: p-Bromofluorobenzene	9.61		"	10.0		96.1	70-130			

Batch BJ10948 - EPA 5035A

Blank (BJ10948-BLK1)

Prepared & Analyzed: 10/15/2021

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
2-Hexanone	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10948 - EPA 5035A

Blank (BJ10948-BLK1)

Prepared & Analyzed: 10/15/2021

4-Chlorotoluene	ND	5.0	ug/kg wet
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Bromobenzene	ND	5.0	"
Bromochloromethane	ND	5.0	"
Bromodichloromethane	ND	5.0	"
Bromoform	ND	5.0	"
Bromomethane	ND	5.0	"
Carbon disulfide	ND	5.0	"
Carbon tetrachloride	ND	5.0	"
Chlorobenzene	ND	5.0	"
Chloroethane	ND	5.0	"
Chloroform	ND	5.0	"
Chloromethane	ND	5.0	"
cis-1,2-Dichloroethylene	ND	5.0	"
cis-1,3-Dichloropropylene	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Methyl Methacrylate	ND	5.0	"
Methyl tert-butyl ether (MTBE)	ND	5.0	"
Methylene chloride	ND	10	"
Naphthalene	ND	10	"
n-Butylbenzene	ND	5.0	"
n-Propylbenzene	ND	5.0	"
o-Xylene	ND	5.0	"
p- & m- Xylenes	ND	10	"
p-Isopropyltoluene	ND	5.0	"
sec-Butylbenzene	ND	5.0	"
Styrene	ND	5.0	"
tert-Butylbenzene	ND	5.0	"
Tetrachloroethylene	ND	5.0	"
Tetrahydrofuran	ND	10	"
Toluene	ND	5.0	"
trans-1,2-Dichloroethylene	ND	5.0	"
trans-1,3-Dichloropropylene	ND	5.0	"
trans-1,4-dichloro-2-butene	ND	5.0	"
Trichloroethylene	ND	5.0	"
Trichlorofluoromethane	ND	5.0	"
Vinyl Chloride	ND	5.0	"

Surrogate: SURR: 1,2-Dichloroethane-d4	50.6	ug/L	50.0	101	70-130
Surrogate: SURR: Toluene-d8	49.8	"	50.0	99.5	70-130
Surrogate: SURR: p-Bromofluorobenzene	51.1	"	50.0	102	70-130



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10948 - EPA 5035A

Blank (BJ10948-BLK2)

Prepared & Analyzed: 10/15/2021

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet
1,1,1-Trichloroethane	ND	500	"
1,1,2,2-Tetrachloroethane	ND	500	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	500	"
1,1,2-Trichloroethane	ND	500	"
1,1-Dichloroethane	ND	500	"
1,1-Dichloroethylene	ND	500	"
1,1-Dichloropropylene	ND	500	"
1,2,3-Trichlorobenzene	ND	500	"
1,2,3-Trichloropropane	ND	500	"
1,2,4-Trichlorobenzene	ND	500	"
1,2,4-Trimethylbenzene	ND	500	"
1,2-Dibromo-3-chloropropane	ND	500	"
1,2-Dibromoethane	ND	500	"
1,2-Dichlorobenzene	ND	500	"
1,2-Dichloroethane	ND	500	"
1,2-Dichloropropane	ND	500	"
1,3,5-Trimethylbenzene	ND	500	"
1,3-Dichlorobenzene	ND	500	"
1,3-Dichloropropane	ND	500	"
1,4-Dichlorobenzene	ND	500	"
2,2-Dichloropropane	ND	500	"
2-Butanone	ND	500	"
2-Chlorotoluene	ND	500	"
2-Hexanone	ND	500	"
4-Chlorotoluene	ND	500	"
4-Methyl-2-pentanone	ND	500	"
Acetone	ND	1000	"
Acrylonitrile	ND	500	"
Benzene	ND	500	"
Bromobenzene	ND	500	"
Bromochloromethane	ND	500	"
Bromodichloromethane	ND	500	"
Bromoform	ND	500	"
Bromomethane	ND	500	"
Carbon disulfide	ND	500	"
Carbon tetrachloride	ND	500	"
Chlorobenzene	ND	500	"
Chloroethane	ND	500	"
Chloroform	ND	500	"
Chloromethane	ND	500	"
cis-1,2-Dichloroethylene	ND	500	"
cis-1,3-Dichloropropylene	ND	500	"
Dibromochloromethane	ND	500	"
Dibromomethane	ND	500	"
Dichlorodifluoromethane	ND	500	"
Ethyl Benzene	ND	500	"
Hexachlorobutadiene	ND	500	"
Isopropylbenzene	ND	500	"
Methyl Methacrylate	ND	500	"
Methyl tert-butyl ether (MTBE)	ND	500	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10948 - EPA 5035A

Blank (BJ10948-BLK2)

Prepared & Analyzed: 10/15/2021

Methylene chloride	2700	1000	ug/kg wet
Naphthalene	ND	1000	"
n-Butylbenzene	ND	500	"
n-Propylbenzene	ND	500	"
o-Xylene	ND	500	"
p- & m- Xylenes	ND	1000	"
p-Isopropyltoluene	ND	500	"
sec-Butylbenzene	ND	500	"
Styrene	ND	500	"
tert-Butylbenzene	ND	500	"
Tetrachloroethylene	ND	500	"
Tetrahydrofuran	ND	1000	"
Toluene	ND	500	"
trans-1,2-Dichloroethylene	ND	500	"
trans-1,3-Dichloropropylene	ND	500	"
trans-1,4-dichloro-2-butene	ND	500	"
Trichloroethylene	ND	500	"
Trichlorofluoromethane	ND	500	"
Vinyl Chloride	ND	500	"

Surrogate: SURR: 1,2-Dichloroethane-d4	52.0	ug/L	50.0	104	70-130
Surrogate: SURR: Toluene-d8	49.5	"	50.0	99.0	70-130
Surrogate: SURR: p-Bromofluorobenzene	50.0	"	50.0	100	70-130

Blank (BJ10948-BLK3)

Prepared & Analyzed: 10/15/2021

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet
1,1,1-Trichloroethane	ND	5.0	"
1,1,2,2-Tetrachloroethane	ND	5.0	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"
1,1,2-Trichloroethane	ND	5.0	"
1,1-Dichloroethane	ND	5.0	"
1,1-Dichloroethylene	ND	5.0	"
1,1-Dichloropropylene	ND	5.0	"
1,2,3-Trichlorobenzene	ND	5.0	"
1,2,3-Trichloropropane	ND	5.0	"
1,2,4-Trichlorobenzene	ND	5.0	"
1,2,4-Trimethylbenzene	ND	5.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane	ND	5.0	"
1,2-Dichlorobenzene	ND	5.0	"
1,2-Dichloroethane	ND	5.0	"
1,2-Dichloropropane	ND	5.0	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,3-Dichloropropane	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
2,2-Dichloropropane	ND	5.0	"
2-Butanone	ND	5.0	"
2-Chlorotoluene	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Chlorotoluene	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10948 - EPA 5035A

Blank (BJ10948-BLK3)

Prepared & Analyzed: 10/15/2021

Acetone	ND	10	ug/kg wet								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromobenzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl Methacrylate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	12	10	"								
Naphthalene	ND	10	"								
n-Butylbenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Tetrahydrofuran	ND	10	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
trans-1,4-dichloro-2-butene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	52.3		ug/L	50.0		105	70-130				
Surrogate: SURR: Toluene-d8	49.7		"	50.0		99.4	70-130				
Surrogate: SURR: p-Bromofluorobenzene	51.1		"	50.0		102	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10948 - EPA 5035A											
LCS (BJ10948-BS1)						Prepared & Analyzed: 10/15/2021					
1,1,1,2-Tetrachloroethane	46.4		ug/L	50.0		92.7	70-130				
1,1,1-Trichloroethane	46.8		"	50.0		93.5	70-130				
1,1,2,2-Tetrachloroethane	49.5		"	50.0		99.0	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	50.0		"	50.0		100	70-130				
1,1,2-Trichloroethane	47.7		"	50.0		95.4	70-130				
1,1-Dichloroethane	49.9		"	50.0		99.8	70-130				
1,1-Dichloroethylene	50.4		"	50.0		101	70-130				
1,1-Dichloropropylene	46.7		"	50.0		93.4	70-130				
1,2,3-Trichlorobenzene	43.8		"	50.0		87.6	70-130				
1,2,3-Trichloropropane	49.3		"	50.0		98.6	70-130				
1,2,4-Trichlorobenzene	43.3		"	50.0		86.7	70-130				
1,2,4-Trimethylbenzene	47.4		"	50.0		94.7	70-130				
1,2-Dibromo-3-chloropropane	43.2		"	50.0		86.5	70-130				
1,2-Dibromoethane	48.2		"	50.0		96.5	70-130				
1,2-Dichlorobenzene	47.6		"	50.0		95.2	70-130				
1,2-Dichloroethane	51.7		"	50.0		103	70-130				
1,2-Dichloropropane	51.9		"	50.0		104	70-130				
1,3,5-Trimethylbenzene	47.0		"	50.0		94.1	70-130				
1,3-Dichlorobenzene	46.7		"	50.0		93.4	70-130				
1,3-Dichloropropane	49.4		"	50.0		98.7	70-130				
1,4-Dichlorobenzene	46.4		"	50.0		92.8	70-130				
2,2-Dichloropropane	44.0		"	50.0		87.9	70-130				
2-Butanone	43.3		"	50.0		86.5	70-130				
2-Chlorotoluene	49.2		"	50.0		98.3	70-130				
2-Hexanone	44.4		"	50.0		88.7	70-130				
4-Chlorotoluene	49.0		"	50.0		98.1	70-130				
4-Methyl-2-pentanone	47.4		"	50.0		94.8	70-130				
Acetone	33.6		"	50.0		67.1	70-130				Low Bias
Acrylonitrile	48.0		"	50.0		96.1	70-130				
Benzene	50.4		"	50.0		101	70-130				
Bromobenzene	48.4		"	50.0		96.8	70-130				
Bromochloromethane	52.7		"	50.0		105	70-130				
Bromodichloromethane	47.4		"	50.0		94.8	70-130				
Bromoform	43.0		"	50.0		86.0	70-130				
Bromomethane	56.7		"	50.0		113	70-130				
Carbon disulfide	53.1		"	50.0		106	70-130				
Carbon tetrachloride	46.5		"	50.0		93.0	70-130				
Chlorobenzene	50.7		"	50.0		101	70-130				
Chloroethane	61.9		"	50.0		124	70-130				
Chloroform	49.9		"	50.0		99.7	70-130				
Chloromethane	58.3		"	50.0		117	70-130				
cis-1,2-Dichloroethylene	49.6		"	50.0		99.2	70-130				
cis-1,3-Dichloropropylene	46.8		"	50.0		93.5	70-130				
Dibromochloromethane	44.0		"	50.0		88.1	70-130				
Dibromomethane	48.1		"	50.0		96.3	70-130				
Dichlorodifluoromethane	65.2		"	50.0		130	70-130				
Ethyl Benzene	49.7		"	50.0		99.4	70-130				
Hexachlorobutadiene	42.7		"	50.0		85.4	70-130				
Isopropylbenzene	48.6		"	50.0		97.3	70-130				
Methyl Methacrylate	45.0		"	50.0		90.0	70-130				
Methyl tert-butyl ether (MTBE)	46.8		"	50.0		93.5	70-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ10948 - EPA 5035A

LCS (BJ10948-BS1)

Prepared & Analyzed: 10/15/2021

Methylene chloride	111		ug/L	50.0		222	70-130	High Bias			
Naphthalene	45.3		"	50.0		90.5	70-130				
n-Butylbenzene	47.7		"	50.0		95.4	70-130				
n-Propylbenzene	48.2		"	50.0		96.4	70-130				
o-Xylene	50.5		"	50.0		101	70-130				
p- & m- Xylenes	101		"	100		101	70-130				
p-Isopropyltoluene	47.0		"	50.0		93.9	70-130				
sec-Butylbenzene	48.0		"	50.0		95.9	70-130				
Styrene	48.5		"	50.0		97.0	70-130				
tert-Butylbenzene	47.1		"	50.0		94.3	70-130				
Tetrachloroethylene	40.9		"	50.0		81.8	70-130				
Tetrahydrofuran	45.8		"	50.0		91.6	70-130				
Toluene	49.7		"	50.0		99.5	70-130				
trans-1,2-Dichloroethylene	51.0		"	50.0		102	70-130				
trans-1,3-Dichloropropylene	45.6		"	50.0		91.2	70-130				
trans-1,4-dichloro-2-butene	45.6		"	50.0		91.2	70-130				
Trichloroethylene	48.4		"	50.0		96.7	70-130				
Trichlorofluoromethane	58.0		"	50.0		116	70-130				
Vinyl Chloride	62.1		"	50.0		124	70-130				
Surrogate: SURR: 1,2-Dichloroethane-d4	51.0		"	50.0		102	70-130				
Surrogate: SURR: Toluene-d8	50.3		"	50.0		101	70-130				
Surrogate: SURR: p-Bromofluorobenzene	50.1		"	50.0		100	70-130				

LCS Dup (BJ10948-BS1)

Prepared & Analyzed: 10/15/2021

1,1,1,2-Tetrachloroethane	48.5		ug/L	50.0		96.9	70-130	4.47	30		
1,1,1-Trichloroethane	48.9		"	50.0		97.8	70-130	4.54	30		
1,1,2,2-Tetrachloroethane	51.2		"	50.0		102	70-130	3.43	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.0		"	50.0		106	70-130	5.77	30		
1,1,2-Trichloroethane	50.2		"	50.0		100	70-130	5.09	30		
1,1-Dichloroethane	52.4		"	50.0		105	70-130	4.87	30		
1,1-Dichloroethylene	52.7		"	50.0		105	70-130	4.52	30		
1,1-Dichloropropylene	48.8		"	50.0		97.7	70-130	4.54	30		
1,2,3-Trichlorobenzene	46.9		"	50.0		93.7	70-130	6.77	30		
1,2,3-Trichloropropane	51.5		"	50.0		103	70-130	4.39	30		
1,2,4-Trichlorobenzene	46.3		"	50.0		92.6	70-130	6.63	30		
1,2,4-Trimethylbenzene	49.6		"	50.0		99.3	70-130	4.70	30		
1,2-Dibromo-3-chloropropane	46.5		"	50.0		93.0	70-130	7.27	30		
1,2-Dibromoethane	51.0		"	50.0		102	70-130	5.60	30		
1,2-Dichlorobenzene	50.2		"	50.0		100	70-130	5.36	30		
1,2-Dichloroethane	54.2		"	50.0		108	70-130	4.63	30		
1,2-Dichloropropane	54.2		"	50.0		108	70-130	4.30	30		
1,3,5-Trimethylbenzene	49.8		"	50.0		99.6	70-130	5.72	30		
1,3-Dichlorobenzene	49.4		"	50.0		98.8	70-130	5.60	30		
1,3-Dichloropropane	51.8		"	50.0		104	70-130	4.92	30		
1,4-Dichlorobenzene	49.5		"	50.0		98.9	70-130	6.40	30		
2,2-Dichloropropane	46.3		"	50.0		92.6	70-130	5.19	30		
2-Butanone	45.5		"	50.0		90.9	70-130	4.94	30		
2-Chlorotoluene	51.4		"	50.0		103	70-130	4.51	30		
2-Hexanone	47.2		"	50.0		94.4	70-130	6.18	30		
4-Chlorotoluene	51.8		"	50.0		104	70-130	5.53	30		
4-Methyl-2-pentanone	49.8		"	50.0		99.6	70-130	4.92	30		



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10948 - EPA 5035A											
LCS Dup (BJ10948-BSD1)						Prepared & Analyzed: 10/15/2021					
Acetone	35.6		ug/L	50.0		71.2	70-130		5.99	30	
Acrylonitrile	49.4		"	50.0		98.8	70-130		2.81	30	
Benzene	53.2		"	50.0		106	70-130		5.48	30	
Bromobenzene	50.4		"	50.0		101	70-130		4.17	30	
Bromochloromethane	54.6		"	50.0		109	70-130		3.64	30	
Bromodichloromethane	49.9		"	50.0		99.8	70-130		5.12	30	
Bromoform	45.2		"	50.0		90.5	70-130		5.05	30	
Bromomethane	59.5		"	50.0		119	70-130		4.77	30	
Carbon disulfide	55.8		"	50.0		112	70-130		5.05	30	
Carbon tetrachloride	49.0		"	50.0		97.9	70-130		5.13	30	
Chlorobenzene	53.5		"	50.0		107	70-130		5.41	30	
Chloroethane	64.5		"	50.0		129	70-130		4.16	30	
Chloroform	52.0		"	50.0		104	70-130		4.16	30	
Chloromethane	60.7		"	50.0		121	70-130		4.07	30	
cis-1,2-Dichloroethylene	52.1		"	50.0		104	70-130		4.97	30	
cis-1,3-Dichloropropylene	49.4		"	50.0		98.8	70-130		5.51	30	
Dibromochloromethane	46.7		"	50.0		93.4	70-130		5.82	30	
Dibromomethane	50.2		"	50.0		100	70-130		4.19	30	
Dichlorodifluoromethane	66.8		"	50.0		134	70-130	High Bias	2.45	30	
Ethyl Benzene	52.3		"	50.0		105	70-130		5.16	30	
Hexachlorobutadiene	45.5		"	50.0		90.9	70-130		6.33	30	
Isopropylbenzene	50.8		"	50.0		102	70-130		4.38	30	
Methyl Methacrylate	47.4		"	50.0		94.8	70-130		5.20	30	
Methyl tert-butyl ether (MTBE)	48.7		"	50.0		97.3	70-130		3.98	30	
Methylene chloride	124		"	50.0		247	70-130	High Bias	10.8	30	
Naphthalene	47.1		"	50.0		94.2	70-130		4.03	30	
n-Butylbenzene	50.9		"	50.0		102	70-130		6.49	30	
n-Propylbenzene	50.7		"	50.0		101	70-130		5.06	30	
o-Xylene	53.4		"	50.0		107	70-130		5.52	30	
p- & m- Xylenes	107		"	100		107	70-130		5.73	30	
p-Isopropyltoluene	49.3		"	50.0		98.6	70-130		4.82	30	
sec-Butylbenzene	50.4		"	50.0		101	70-130		4.86	30	
Styrene	51.3		"	50.0		103	70-130		5.53	30	
tert-Butylbenzene	49.6		"	50.0		99.1	70-130		5.01	30	
Tetrachloroethylene	43.4		"	50.0		86.8	70-130		5.93	30	
Tetrahydrofuran	49.0		"	50.0		97.9	70-130		6.69	30	
Toluene	52.7		"	50.0		105	70-130		5.84	30	
trans-1,2-Dichloroethylene	53.6		"	50.0		107	70-130		4.88	30	
trans-1,3-Dichloropropylene	48.1		"	50.0		96.2	70-130		5.33	30	
trans-1,4-dichloro-2-butene	47.0		"	50.0		94.0	70-130		3.07	30	
Trichloroethylene	51.7		"	50.0		103	70-130		6.70	30	
Trichlorofluoromethane	61.5		"	50.0		123	70-130		5.86	30	
Vinyl Chloride	65.6		"	50.0		131	70-130	High Bias	5.42	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	50.6		"	50.0		101	70-130				
Surrogate: SURR: Toluene-d8	50.0		"	50.0		99.9	70-130				
Surrogate: SURR: p-Bromofluorobenzene	49.8		"	50.0		99.7	70-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11002 - EPA 3546- SVOA RCP

Blank (BJ11002-BLK1)

Prepared: 10/18/2021 Analyzed: 10/19/2021

1,2,4,5-Tetrachlorobenzene	ND	249	ug/kg wet
1,2,4-Trichlorobenzene	ND	249	"
1-Methylnaphthalene	ND	249	"
2,4,5-Trichlorophenol	ND	249	"
2,4,6-Trichlorophenol	ND	249	"
2,4-Dichlorophenol	ND	249	"
2,4-Dimethylphenol	ND	249	"
2,4-Dinitrophenol	ND	249	"
2,4-Dinitrotoluene	ND	249	"
2,6-Dinitrotoluene	ND	249	"
2-Chloronaphthalene	ND	249	"
2-Chlorophenol	ND	249	"
2-Methylnaphthalene	ND	249	"
2-Methylphenol	ND	249	"
2-Nitroaniline	ND	249	"
2-Nitrophenol	ND	249	"
3- & 4-Methylphenols	ND	249	"
3,3-Dichlorobenzidine	ND	249	"
3-Nitroaniline	ND	249	"
4,6-Dinitro-2-methylphenol	ND	249	"
4-Bromophenyl phenyl ether	ND	249	"
4-Chloro-3-methylphenol	ND	249	"
4-Chloroaniline	ND	249	"
4-Chlorophenyl phenyl ether	ND	249	"
4-Nitroaniline	ND	249	"
4-Nitrophenol	ND	249	"
Acenaphthene	ND	249	"
Acenaphthylene	ND	249	"
Aniline	ND	249	"
Anthracene	ND	249	"
Benzo(a)anthracene	ND	249	"
Benzo(a)pyrene	ND	249	"
Benzo(b)fluoranthene	ND	249	"
Benzo(g,h,i)perylene	ND	249	"
Benzo(k)fluoranthene	ND	249	"
Benzyl butyl phthalate	ND	249	"
Bis(2-chloroethoxy)methane	ND	249	"
Bis(2-chloroethyl)ether	ND	249	"
Bis(2-chloroisopropyl)ether	ND	249	"
Bis(2-ethylhexyl)phthalate	ND	249	"
Carbazole	ND	249	"
Chrysene	ND	249	"
Dibenzo(a,h)anthracene	ND	249	"
Dibenzofuran	ND	249	"
Diethyl phthalate	ND	249	"
Dimethyl phthalate	ND	249	"
Di-n-butyl phthalate	ND	249	"
Di-n-octyl phthalate	ND	249	"
Fluoranthene	ND	249	"
Fluorene	ND	249	"
Hexachlorobenzene	ND	249	"



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11002 - EPA 3546- SVOA RCP

Blank (BJ11002-BLK1)

Prepared: 10/18/2021 Analyzed: 10/19/2021

Hexachlorobutadiene	ND	249	ug/kg wet
Hexachlorocyclopentadiene	ND	498	"
Hexachloroethane	ND	249	"
Indeno(1,2,3-cd)pyrene	ND	249	"
Isophorone	ND	249	"
Naphthalene	ND	249	"
Nitrobenzene	ND	249	"
N-nitroso-di-n-propylamine	ND	249	"
N-Nitrosodiphenylamine	ND	249	"
Pentachloronitrobenzene	ND	249	"
Pentachlorophenol	ND	249	"
Phenanthrene	ND	249	"
Phenol	ND	249	"
Pyrene	ND	249	"
Pyridine	ND	249	"

Surrogate: SURR: 2-Fluorophenol	2580	"	2490	104	30-130
Surrogate: SURR: Phenol-d5	2550	"	2490	103	30-130
Surrogate: SURR: Nitrobenzene-d5	1460	"	1240	118	30-130
Surrogate: SURR: 2-Fluorobiphenyl	1250	"	1240	101	30-130
Surrogate: SURR: 2,4,6-Tribromophenol	3530	"	2490	142	30-130
Surrogate: SURR: Terphenyl-d14	1300	"	1240	105	30-130

LCS (BJ11002-BS1)

Prepared: 10/18/2021 Analyzed: 10/19/2021

1,2,4,5-Tetrachlorobenzene	1380	249	ug/kg wet	1240	111	40-140
1,2,4-Trichlorobenzene	1340	249	"	1240	107	40-140
1-Methylnaphthalene	1230	249	"	1240	99.1	40-140
2,4,5-Trichlorophenol	1300	249	"	1240	104	30-130
2,4,6-Trichlorophenol	1300	249	"	1240	105	30-130
2,4-Dichlorophenol	1390	249	"	1240	112	30-130
2,4-Dimethylphenol	1250	249	"	1240	100	30-130
2,4-Dinitrophenol	219	249	"	1240	17.6	30-130
2,4-Dinitrotoluene	1580	249	"	1240	127	40-140
2,6-Dinitrotoluene	1490	249	"	1240	120	40-140
2-Chloronaphthalene	1130	249	"	1240	91.1	40-140
2-Chlorophenol	1120	249	"	1240	90.1	30-130
2-Methylnaphthalene	1260	249	"	1240	101	40-140
2-Methylphenol	1200	249	"	1240	96.8	30-130
2-Nitroaniline	1290	249	"	1240	104	40-140
2-Nitrophenol	1500	249	"	1240	121	30-130
3- & 4-Methylphenols	1040	249	"	1240	83.4	40-140
3,3-Dichlorobenzidine	1290	249	"	1240	104	40-140
3-Nitroaniline	1070	249	"	1240	85.8	40-140
4,6-Dinitro-2-methylphenol	655	249	"	1240	52.6	30-130
4-Bromophenyl phenyl ether	1270	249	"	1240	102	40-140
4-Chloro-3-methylphenol	1380	249	"	1240	111	30-130
4-Chloroaniline	934	249	"	1240	75.1	40-140
4-Chlorophenyl phenyl ether	1260	249	"	1240	102	40-140
4-Nitroaniline	1150	249	"	1240	92.1	40-140
4-Nitrophenol	1120	249	"	1240	90.0	30-130
Acenaphthene	1080	249	"	1240	86.6	40-140
Acenaphthylene	1100	249	"	1240	88.2	40-140



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11002 - EPA 3546- SVOA RCP

LCS (BJ11002-BS1)

Prepared: 10/18/2021 Analyzed: 10/19/2021

Aniline	1120	249	ug/kg wet	1240		90.1	40-140				
Anthracene	1200	249	"	1240		96.3	40-140				
Benzo(a)anthracene	1250	249	"	1240		100	40-140				
Benzo(a)pyrene	838	249	"	1240		67.4	40-140				
Benzo(b)fluoranthene	963	249	"	1240		77.4	40-140				
Benzo(g,h,i)perylene	1140	249	"	1240		91.3	40-140				
Benzo(k)fluoranthene	951	249	"	1240		76.5	40-140				
Benzyl butyl phthalate	1060	249	"	1240		85.0	40-140				
Bis(2-chloroethoxy)methane	1270	249	"	1240		102	40-140				
Bis(2-chloroethyl)ether	1240	249	"	1240		99.6	40-140				
Bis(2-chloroisopropyl)ether	3540	249	"	1240		284	40-140	High Bias			
Bis(2-ethylhexyl)phthalate	1110	249	"	1240		89.6	40-140				
Carbazole	1120	249	"	1240		90.1	40-140				
Chrysene	1210	249	"	1240		97.6	40-140				
Dibenzo(a,h)anthracene	1210	249	"	1240		97.0	40-140				
Dibenzofuran	1150	249	"	1240		92.4	40-140				
Diethyl phthalate	1070	249	"	1240		85.8	40-140				
Dimethyl phthalate	1120	249	"	1240		89.7	40-140				
Di-n-butyl phthalate	1130	249	"	1240		90.7	40-140				
Di-n-octyl phthalate	1140	249	"	1240		91.9	40-140				
Fluoranthene	1310	249	"	1240		105	40-140				
Fluorene	1160	249	"	1240		93.0	40-140				
Hexachlorobenzene	1100	249	"	1240		88.2	40-140				
Hexachlorobutadiene	1730	249	"	1240		139	40-140				
Hexachlorocyclopentadiene	ND	498	"	1240			40-140	Low Bias			
Hexachloroethane	1010	249	"	1240		81.6	40-140				
Indeno(1,2,3-cd)pyrene	1190	249	"	1240		96.0	40-140				
Isophorone	1320	249	"	1240		106	40-140				
Naphthalene	1160	249	"	1240		93.4	40-140				
Nitrobenzene	1320	249	"	1240		106	40-140				
N-nitroso-di-n-propylamine	1210	249	"	1240		97.2	40-140				
N-Nitrosodiphenylamine	1340	249	"	1240		108	40-140				
Pentachloronitrobenzene	1740	249	"	1240		140	40-140				
Pentachlorophenol	1080	249	"	1240		86.6	30-130				
Phenanthrene	1100	249	"	1240		88.4	40-140				
Phenol	1370	249	"	1240		110	30-130				
Pyrene	1100	249	"	1240		88.8	40-140				
Pyridine	688	249	"	1240		55.3	40-140				
Surrogate: SURR: 2-Fluorophenol	2300		"	2490		92.5	30-130				
Surrogate: SURR: Phenol-d5	2230		"	2490		89.8	30-130				
Surrogate: SURR: Nitrobenzene-d5	1370		"	1240		110	30-130				
Surrogate: SURR: 2-Fluorobiphenyl	1130		"	1240		90.5	30-130				
Surrogate: SURR: 2,4,6-Tribromophenol	3200		"	2490		128	30-130				
Surrogate: SURR: Terphenyl-d14	1170		"	1240		94.1	30-130				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11059 - EPA 3545A

Blank (BJ11059-BLK1)

Prepared: 10/19/2021 Analyzed: 10/20/2021

4,4'-DDD	ND	0.00248	mg/kg wet								
4,4'-DDE	ND	0.00248	"								
4,4'-DDT	ND	0.00248	"								
Alachlor	ND	0.00248	"								
Aldrin	ND	0.00248	"								
alpha-BHC	ND	0.00248	"								
beta-BHC	ND	0.00248	"								
Chlordane, total	ND	0.0330	"								
delta-BHC	ND	0.00248	"								
Dieldrin	ND	0.00248	"								
Endosulfan I	ND	0.00248	"								
Endosulfan II	ND	0.00248	"								
Endosulfan sulfate	ND	0.00248	"								
Endrin	ND	0.00248	"								
Endrin aldehyde	ND	0.00248	"								
Endrin ketone	ND	0.00248	"								
gamma-BHC (Lindane)	ND	0.00248	"								
Heptachlor	ND	0.00248	"								
Heptachlor epoxide	ND	0.00248	"								
Methoxychlor	ND	0.0124	"								
Toxaphene	ND	0.125	"								
Surrogate: Decachlorobiphenyl	0.0870		"	0.100		87.0	30-150				
Surrogate: Tetrachloro-m-xylene	0.0925		"	0.100		92.5	30-150				

LCS (BJ11059-BS1)

Prepared: 10/19/2021 Analyzed: 10/20/2021

4,4'-DDD	0.0551	0.00248	mg/kg wet	0.0500		110	40-140				
4,4'-DDE	0.0371	0.00248	"	0.0500		74.1	40-140				
4,4'-DDT	0.0312	0.00248	"	0.0500		62.5	40-140				
Alachlor	0.0544	0.00248	"	0.0500		109	40-140				
Aldrin	0.0620	0.00248	"	0.0500		124	40-140				
alpha-BHC	0.0567	0.00248	"	0.0500		113	40-140				
beta-BHC	0.0582	0.00248	"	0.0500		116	40-140				
delta-BHC	0.0552	0.00248	"	0.0500		110	40-140				
Dieldrin	0.0656	0.00248	"	0.0500		131	40-140				
Endosulfan I	0.0684	0.00248	"	0.0500		137	40-140				
Endosulfan II	0.0664	0.00248	"	0.0500		133	40-140				
Endosulfan sulfate	0.0486	0.00248	"	0.0500		97.1	40-140				
Endrin	0.0503	0.00248	"	0.0500		101	40-140				
Endrin aldehyde	0.0658	0.00248	"	0.0500		132	40-140				
Endrin ketone	0.0683	0.00248	"	0.0500		137	40-140				
gamma-BHC (Lindane)	0.0557	0.00248	"	0.0500		111	40-140				
Heptachlor	0.0548	0.00248	"	0.0500		110	40-140				
Heptachlor epoxide	0.0644	0.00248	"	0.0500		129	40-140				
Methoxychlor	0.0307	0.0124	"	0.0500		61.3	40-140				
Surrogate: Decachlorobiphenyl	0.0806		"	0.100		80.6	30-150				
Surrogate: Tetrachloro-m-xylene	0.0934		"	0.100		93.4	30-150				



Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch Y1J2106 - BJ10746

Performance Mix (Y1J2106-PEM1)

Prepared & Analyzed: 10/20/2021

4,4'-DDD	12.1		ng/mL	0.00			0-200				
4,4'-DDE	2.33		"	0.00			0-200				
4,4'-DDT	248		"	200		124	0-200				
Endrin	126		"	100		126	0-200				
Endrin aldehyde	1.50		"	0.00			0-200				
Endrin ketone	6.03		"	0.00			0-200				

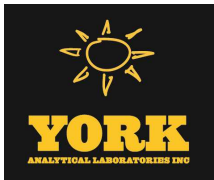
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Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ11059 - EPA 3545A											
Blank (BJ11059-BLK2)											
										Prepared: 10/19/2021 Analyzed: 10/20/2021	
Aroclor 1016	ND	0.0250	mg/kg wet								
Aroclor 1221	ND	0.0250	"								
Aroclor 1232	ND	0.0250	"								
Aroclor 1242	ND	0.0250	"								
Aroclor 1248	ND	0.0250	"								
Aroclor 1254	ND	0.0250	"								
Aroclor 1260	ND	0.0250	"								
Aroclor 1262	ND	0.0250	"								
Aroclor 1268	ND	0.0250	"								
Total PCBs	ND	0.0250	"								
Surrogate: Tetrachloro-m-xylene	0.0880		"	0.100		88.0	30-150				
Surrogate: Decachlorobiphenyl	0.0580		"	0.100		58.0	30-150				
LCS (BJ11059-BS2)											
										Prepared: 10/19/2021 Analyzed: 10/20/2021	
Aroclor 1016	0.430	0.0250	mg/kg wet	0.500		86.1	40-140				
Aroclor 1260	0.424	0.0250	"	0.500		84.8	40-140				
Surrogate: Tetrachloro-m-xylene	0.0705		"	0.100		70.5	30-150				
Surrogate: Decachlorobiphenyl	0.0500		"	0.100		50.0	30-150				
Matrix Spike (BJ11059-MS2)											
*Source sample: 21J0624-05 (TP-5_10.13.2021 (1-2))										Prepared: 10/19/2021 Analyzed: 10/20/2021	
Aroclor 1016	0.482	0.0273	mg/kg dry	0.547	ND	88.2	40-140				
Aroclor 1260	0.460	0.0273	"	0.547	ND	84.1	40-140				
Surrogate: Tetrachloro-m-xylene	0.0787		"	0.109		72.0	30-150				
Surrogate: Decachlorobiphenyl	0.0579		"	0.109		53.0	30-150				
Matrix Spike Dup (BJ11059-MSD2)											
*Source sample: 21J0624-05 (TP-5_10.13.2021 (1-2))										Prepared: 10/19/2021 Analyzed: 10/20/2021	
Aroclor 1016	0.488	0.0273	mg/kg dry	0.547	ND	89.3	40-140		1.19	50	
Aroclor 1260	0.462	0.0273	"	0.547	ND	84.6	40-140		0.545	50	
Surrogate: Tetrachloro-m-xylene	0.0804		"	0.109		73.5	30-150				
Surrogate: Decachlorobiphenyl	0.0596		"	0.109		54.5	30-150				



Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch Y1J1952 - BJ10998

Aroclor Reference (Y1J1952-ARC1)

Prepared & Analyzed: 10/19/2021

Surrogate: Tetrachloro-m-xylene	0.178		ug/mL	0.200		89.0					
Surrogate: Decachlorobiphenyl	0.156		"	0.200		78.0					

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Chlorinated Herbicides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11140 - EPA 3550C/8151A

Blank (BJ11140-BLK1)

Prepared & Analyzed: 10/20/2021

2,4,5-T	ND	0.0199	mg/kg wet								
2,4,5-TP (Silvex)	ND	0.0199	"								
2,4-D	ND	0.0199	"								
Dalapon	ND	0.0199	"								
Dicamba	ND	0.0199	"								

Surrogate: 2,4-Dichlorophenylacetic acid (DCAA) 0.336 " 0.415 81.0 21-150

LCS (BJ11140-BS1)

Prepared & Analyzed: 10/20/2021

2,4,5-T	0.0939	0.0199	mg/kg wet	0.133		70.6	10-120				
2,4,5-TP (Silvex)	0.105	0.0199	"	0.133		78.8	10-120				
2,4-D	0.105	0.0199	"	0.133		79.4	10-118				
Dalapon	0.0939	0.0199	"	0.133		70.6	40-140				
Dicamba	0.105	0.0199	"	0.133		79.4	12-117				

Surrogate: 2,4-Dichlorophenylacetic acid (DCAA) 0.357 " 0.415 86.0 21-150



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11003 - EPA 3546 ETPH

Blank (BJ11003-BLK1)

Prepared & Analyzed: 10/18/2021

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	39.6	mg/kg wet								
Surrogate: 1-Chlorooctadecane	7.71		"	9.90		77.9	50-150				

LCS (BJ11003-BS1)

Prepared & Analyzed: 10/18/2021

ETPH (Extractable Total Petroleum Hydrocarbons)	59.2	39.6	mg/kg wet	74.3		79.7	39.8-123				
Surrogate: 1-Chlorooctadecane	8.08		"	9.90		81.6	50-150				

Batch BJ11095 - EPA 3546 ETPH

Blank (BJ11095-BLK1)

Prepared & Analyzed: 10/19/2021

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	39.6	mg/kg wet								
Surrogate: 1-Chlorooctadecane	7.90		"	9.90		79.8	50-150				

LCS (BJ11095-BS1)

Prepared & Analyzed: 10/19/2021

ETPH (Extractable Total Petroleum Hydrocarbons)	57.0	39.6	mg/kg wet	74.3		76.8	39.8-123				
Surrogate: 1-Chlorooctadecane	8.30		"	9.90		83.9	50-150				



Metals by ICP - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BJ11049 - EPA 3050B

Blank (BJ11049-BLK1)

Prepared: 10/18/2021 Analyzed: 10/21/2021

Antimony	ND	2.50	mg/kg wet
Arsenic	ND	1.50	"
Barium	ND	2.50	"
Beryllium	ND	0.050	"
Cadmium	ND	0.300	"
Chromium	ND	0.500	"
Copper	ND	2.00	"
Lead	ND	0.500	"
Nickel	ND	1.00	"
Selenium	ND	2.50	"
Silver	ND	0.500	"
Thallium	ND	2.50	"
Vanadium	ND	1.00	"
Zinc	ND	2.50	"

Reference (BJ11049-SRM1)

Prepared: 10/18/2021 Analyzed: 10/21/2021

Antimony	78.2	2.50	mg/kg wet	134	58.3	19.3-250
Arsenic	189	1.50	"	156	121	69.9-130.1
Barium	307	2.50	"	239	128	74.9-124.7 High Bias
Beryllium	191	0.050	"	169	113	75.1-125.4
Cadmium	157	0.300	"	137	115	75.2-124.8
Chromium	182	0.500	"	154	118	70.1-129.9
Copper	70.5	2.00	"	54.9	128	74.9-125 High Bias
Lead	153	0.500	"	130	117	71.8-128.5
Nickel	70.9	1.00	"	53.9	132	69.9-129.9 High Bias
Selenium	163	2.50	"	167	97.6	67.7-132.3
Silver	39.8	0.500	"	33.6	118	68.5-131.3
Thallium	122	2.50	"	112	109	67.9-131.3
Vanadium	76.0	1.00	"	62.6	121	59.1-141.1
Zinc	173	2.50	"	158	110	70.3-129.7



Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

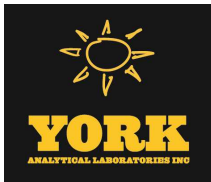
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ11244 - EPA 7473 soil											
Blank (BJ11244-BLK1)								Prepared & Analyzed: 10/21/2021			
Mercury	ND	0.0300	mg/kg wet								
Duplicate (BJ11244-DUP1)								Prepared & Analyzed: 10/21/2021			
Mercury	ND	0.0316	mg/kg dry		ND					35	
Matrix Spike (BJ11244-MS1)								Prepared & Analyzed: 10/21/2021			
Mercury	0.477		mg/kg	0.500	0.0194	91.4	75-125				
Reference (BJ11244-SRM1)								Prepared & Analyzed: 10/21/2021			
Mercury	25.171		mg/kg	27.2		92.5	59.9-140.1				

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Wet Chemistry Parameters - Quality Control Data
York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BJ10844 - EPA SW846-3060											
Blank (BJ10844-BLK1)								Prepared & Analyzed: 10/14/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
Duplicate (BJ10844-DUP1)								Prepared & Analyzed: 10/14/2021			
*Source sample: 21J0624-02 (TP-2_10.13.2021 (10-12))											
Chromium, Hexavalent	ND	0.553	mg/kg dry		ND					35	
Matrix Spike (BJ10844-MS1)								Prepared & Analyzed: 10/14/2021			
*Source sample: 21J0624-02 (TP-2_10.13.2021 (10-12))											
Chromium, Hexavalent	19.7	0.553	mg/kg dry	22.1	ND	89.0	75-125				
Reference (BJ10844-SRM1)								Prepared & Analyzed: 10/14/2021			
Chromium, Hexavalent	73.0		mg/L	109		66.9	30-169.7				
Batch BJ10975 - EPA SW846-3060											
Blank (BJ10975-BLK1)								Prepared & Analyzed: 10/18/2021			
Chromium, Hexavalent	ND	0.500	mg/kg wet								
LCS (BJ10975-BS1)								Prepared & Analyzed: 10/18/2021			
Chromium, Hexavalent	42.8		mg/L	109		39.3	18.8-206				
Batch BJ11061 - Analysis Preparation Soil											
Blank (BJ11061-BLK1)								Prepared & Analyzed: 10/19/2021			
Cyanide, total	ND	0.500	mg/kg wet								
Reference (BJ11061-SRM1)								Prepared & Analyzed: 10/19/2021			
Cyanide, total	50.8		ug/mL	91.9		55.3	42.22-159.96				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC Limits	Flag	RPD Limit	Flag
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Batch BJ11043 - Analysis Preparation

Duplicate (BJ11043-DUP1)	*Source sample: 21J0624-05 (TP-5_10.13.2021 (1-2))						Prepared & Analyzed: 10/18/2021			
ORP (Oxidation-Reduction Potential) (Ag/AgCl)	360	-200	mV		370			2.74	30	

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21J0624-01	TP-1_10.13.2021 (0-4)	40mL Vial with Stir Bar-Cool 4° C
21J0624-02	TP-2_10.13.2021 (10-12)	40mL Vial with Stir Bar-Cool 4° C
21J0624-03	TP-3_10.13.2021 (10-11)	40mL Vial with Stir Bar-Cool 4° C
21J0624-04	TP-4_10.13.2021 (5-6)	40mL Vial with Stir Bar-Cool 4° C
21J0624-05	TP-5_10.13.2021 (1-2)	40mL Vial with Stir Bar-Cool 4° C
21J0624-09	Trip Blanks	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

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Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
CCV-H	The value reported is estimated due to its behavior during continuing calibration verification (>20% difference for average RF or >20% drift for linear or quadratic fit.) This value may be biased high.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.



If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

DRAFT



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YOUR INFORMATION

Company: Longan Engineering

Address: 555 Long Wharf Dr.

New Haven, CT 06511

Phone: 203 780 1376

Contact: William Adsit

E-mail: wadsit@longan.com

Please 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.

222
Samples Collected by: (print your name above and sign below)

William Adsit

Sample Identification

TP-1 - 10.13.2021 (0-4)

TP-2 - 10.13.2021 (10-12)

TP-3 - 10.13.2021 (10-11)

TP-4 - 10.13.2021 (5-6)

TP-5 - 10.13.2021 (1-2)

GS-1 - 10.13.2021

GS-2 - 10.13.2021

GS-3 - 10.13.2021

Trip Blanks

Report To:

Company:

Address:

Phone:

Contact:

E-mail:

Invoice To:

Company:

Address:

Phone:

Contact:

E-mail:

YOUR Project Number

140239101

YOUR Project Name

240 Main St.
Southington, CT

YOUR PO#: 140239101

Turn-Around Time

RUSH - Next Day

RUSH - Two Day

RUSH - Three Day

RUSH - Four Day

Standard (5-7 Day) ☒

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

RDEC
GA PNC

Report / EDD Type (circle selections)

Summary Report

CT RCP

CT RCP DQA/DUE

Standard Excel EDD

EQUS (Standard)

NYSDEC EQUIS

NJDEP Reduced Deliverables

NJDEP SRP HazSite

Other:

Samples From

New York

New Jersey

Connecticut

Pennsylvania

Other

Matrix Codes

S - soil / solid

GW - groundwater

DW - drinking water

WW - wastewater

O - Oil

Sample Matrix

S

Other

Date/Time Sampled

10/13/21 9:40

11:05

12:10

13:25

14:30

15:10

15:38

16:00

N/A

Analysis Requested

VOCs, SVOCs, ETPH, pesticides,

herbicides, PCBs, CTDEEP-1st

metals, total cyanide & total chromium

pesticides & CTDEEP-1st metals *

VOCs

Container Description

Terracore kit

& 2x 803 jars

2x 803 jars

2x 40-mL vials

Comments: Please cc: deliverables to Dave Granucci; reporting limits must meet CT RSRs & APS criteria

*SPL pesticides & metals may be authorized pending results of totals.

Samples Relinquished by / Company

Date/Time

10/13/21

17:29

Samples Received by / Company

Date/Time

Samples Relinquished by / Company

Date/Time

Samples Received by / Company

Date/Time

Samples Relinquished by / Company

Date/Time

Samples Received by / Company

Date/Time

Samples Relinquished by / Company

Date/Time

Temp. Received at Lab

3.7

Degrees C