

**April 19, 2023 Update**

**2023 Schedule and Outline of Proposed Work**

**Region 18, Lyme-Old Lyme Middle School**

Turner Environmental has performed additional testing and soil remediation at the Region 18 campus to address the oil spill which occurred in August 2022. Since our last update in March the following tasks have been completed.

Previous work by Kropp Environmental indicated that approximately 90 tons of impacted soil was excavated and disposed of from this area. “Confirmatory” soil samples collected by Kropp from the perimeter of that excavation indicated elevated ETPH concentrations in soil ranging from 1,600 to 21,000 mg/kg ETPH in soil approximately **six feet below grade.**”

This area was further excavated the week of March 19, 2023. Please see additional information below.

**Outdoor Investigation/Remediation**

Additional remedial activities were performed include further excavation around the concrete holding tank and removal of that tank. Floor drains in the boiler room that previously were directed to the tank were sealed with concrete. The concrete holding tank was removed and will be disposed of with contaminated soil.

Approximately 15-20 tons of additional impacted soil were removed from the area and post excavation soil samples were collected and submitted to a laboratory. This work was completed on 3-20-23 and the area restored to grade with clean fill. The post-excavation soil samples were obtained from approximately 6.5 to 7 fbg in the remedial area. All of these samples were collected from below the depth of the samples previously collected by Kropp.

Samples were collected approximately one and one-half to two feet below the current water table and as deep as the excavation could be performed without dewatering. The soils at the base of the excavation were saturated with groundwater. They did not exhibit elevated PID readings or have any discernable odor. No sheen was observed on the groundwater entering the excavation at that time. The laboratory results of our post excavation samples indicate three of the post excavation samples had ETPH concentrations below detection limits and one sample contained 434 mg/kg ETPH. No VOCs or PAHs were detected in any of the post excavation soil samples collected by Turner. All post excavation samples collected from this area are below their respective RSR criteria. Sample results are summarized below, and their locations are shown in Figure 3. Copies of the laboratory reports for soil and groundwater for this area are provided in Appendix A.

Summary - Post Excavation Soil Samples from Concrete Tank Area – March 17, 2023

SAMPLE ID/DEPTH	ETPH (mg/L)	VOCs (ug/L)	PAHs (ug/L)
Pipe 7'	434	BRL	BRL
N Rem 6.5'	< 43.4	BRL	BRL
SE Corn. REM 6.5	< 43.7	BRL	BRL
SW Corn. Rem 6.5'	< 42.1	BRL	BRL

Prior to backfilling the excavation, a 4" diameter monitoring well was installed in the northern portion of the excavation to evaluate groundwater quality and a 6" diameter "drainage pipe" was installed vertically in the southern portion of the excavation where soil excavation was just performed. All areas where groundwater was encountered and the areas where the wells were installed were backfilled with crushed stone.

The 4" well was designated MW-14. It was subsequently sampled and found to have elevated **ETPH (3.72 mg/L)**, VOCs (**Benzene at 35.4 ug/L**, 1,3,5 trimethylbenzene at 113 ug/L , 1,2,4 trimethylbenzene at 408 ug/L, ethylbenzene at 148 ug/L, **total xylenes at 840 ug/L**). Several PAHS were also detected – all are below their respective criteria. A copy of the laboratory report is provided in Attachment A. ETPH and some VOCs exceed their respective RSR criteria.

We previously anticipated treating that area an ORC application though the 6" "well". We requested permission to initiate that under a verbal approval from CT DEEP Oil and Chemical Spills as part of the immediate spill response (e-mail dated April 11, 2023). However, that was not confirmed, and no ORC application has been performed.

DEEP personnel have indicated that the water table at the time of the spill was lower than the current water table. At the time of the spill the water table on the southern side of the Middle School was 7.6 to 8.97 fbg and have questioned whether there may be additional petroleum impacted soil that remains deeper than the depth of the post-excavation soil samples collected by Turner in March. During the additional soil excavation substantial groundwater was encountered and we excavated to approximately seven feet deep, approximately 1.5 to 2 feet below the current water table.

Soils at that depth were undisturbed medium to coarse sand. No odors were discernable, and no other indications of petroleum were observed. Based on the presence of groundwater without substantial visual evidence of contamination the area was backfilled.

To address the question of if deeper contaminated soils remain, we will perform two to three additional soil borings and sample and analyze soil samples for ETPH and VOCs. This Testing is currently scheduled for the week of May 15, 2023. We are evaluating if this sampling date can be expedited and will discuss this in our call. If additional deeper contaminated soils are identified, our plan would be to perform additional excavation and disposal.

We previously indicated our intent to use Oxygen Release Compounds (ORC) to provide an oxygen source for bioremediation of the petroleum compounds present in groundwater. Our initial plan is to start with an application in the outdoor area, inject additional ORC in numerous locations in the boiler room to

initiate bioremediation. The injected compounds are expected to follow the flow path of the plume beneath the building.

We also plan to use either ORC or possibly another injectable product (PetroFix) as a “Barrier Wall” on the western side of the building. This would include injections in a sawtooth pattern in the area where the plume exits from beneath the building, intercepting it and reducing and eliminating the contaminants before they move off-site.

The Petrofix product contains activated carbon and electron acceptors to decrease petroleum concentrations in groundwater. The product we are recommending removes hydrocarbons from the dissolved phase by adsorbing them onto activated carbon particles and then stimulates hydrocarbon biodegradation by adding electron acceptors which are contained in the product. The electron acceptors are sulfate and nitrates with very low toxicity.

It is our understanding that DEEP/SATSU have been authorized to review and approve our plan. The overall plan outlined here will be further refined and specific details will be provided including the number and location of injection points, monitoring parameters and schedule. We believe we can prepare and submit a work plan the week of May 1, 2023.

Conceptually our plan for additional ORC injections/applications through the boiler room floor would include eight to ten injection locations with product applied through a range of depths at each location. Additional actions on west side of the school would also include injection at multiple locations to mitigate/remediate petroleum if it exits from beneath the building and intercept contaminants that would otherwise move off-site.

### **Interior Investigation**

Previous investigation included borings placed through several cracks and seams in the boiler room floor. Four additional borings were placed inside the boiler room on March 14, 2023. These borings were placed on seams and cracks in the boiler room floor. After removal of the concrete, a plastic vapor barrier was encountered beneath the floor. We completed borings beneath the floor in these locations and screened the soil with a PID. While elevated PID readings were observed in these soil borings, they did not indicate a top down release through the floor.

*Recovery wells in the boiler room previously had free product present. Testing performed in January, February and March 2023 did not find any free product or sheen in any of these wells.*

### **Replacement and off-site Monitoring Wells**

We previously discussed the results of replacement wells on the west side of the building. In addition, two off-site monitoring wells were installed on the [REDACTED] March 14, 2023. Those wells were developed on March 21, 2023 and were sampled on March 30, 2023.

The results of these samples indicate that MW-12 had Bis(2-ethylhexyl)phthalate detected at 6.61 ug/L. That contaminant has not been detected in any other well. No VOCs, ETPH or other PAHs were detected in that well. This compound is not considered a petroleum contaminant.

MW-13 which is located east of [REDACTED] had several VOCs detected including 1, 2, 4 trimethylbenzene at 3.85 ug/L, **benzene at 1.18 ug/L**, ethylbenzene at 1.63 ug/L, isopropyl benzene at 0.55 ug/L and total xylenes at 3.39 ug/L. Naphthalene 0.22 ug/l and ETPH was detected in this sample a 0.165 mg/l in that sample. Benzene was the only contaminant that exceeds its RSR criteria.

A summary of the analytical results for all monitoring wells including the off-site wells MW-12 and MW-13 and the new 4" diameter monitoring well in the outdoor remedial are provided in a Table in Attachment B. A site plan with groundwater elevations and groundwater flow directions is also provided (See Figure 3).

#### **Off-site Drinking Water Wells**

Due to the detection of contaminants in one off-site well the drinking water well at [REDACTED] was retested again on April 14, 2023. No ETPH, VOCs or PAHs were detected in that Drinking Water sample. We previously sampled the drinking water wells at [REDACTED]. This is a deeper drilled well and no contaminants were detected in that well.

Additional repeat drinking water sampling was performed on [REDACTED] drinking water wells. One contaminant was detected in both of the wells sampled on April 3, 2023. Chloromethane was detected in both wells at 7.7 to 11 ug/L in these wells. Based on discussions with the laboratory this compound is an occasional artifact found in HCl preserved vials that are exposed to methane. This contaminant was detected in both samples on the same date and has not been detected in any other drinking water sample. Furthermore, it is not a petroleum contaminant which would result from the oil spill being investigated and unlikely to be present in two drinking water wells at relatively distant locations. Our conclusion is that chloromethane is not actually a well contaminant but a laboratory artifact.

Except for the chloromethane detections discussed above, no contaminants have been detected in any drinking water well tested by Turner. Several PAHs were detected in prior sampling at [REDACTED]. That well has been retested twice with no contaminants detected.

[REDACTED]

[REDACTED]

[REDACTED]

#### **Soil Vapor Sampling**

We previously proposed additional soil vapor sampling at five additional locations. The sub slab soil vapor sampling was postponed due to a shortage of summa sampling containers at the end of March. We have now obtained enough summa canisters and regulators to collect five soil vapor samples. The regulators will collect one hour samples and cannisters will be analyzed for VOCs by EPA Method TO-15. Proposed soil vapor sampling locations include the boiler room, the basement of the kitchen (adjacent to the boiler room), and additional locations in the school closer to the release area than the original sample collected in the cafeteria.

Samples will be collected this week with results available on or about May 1, 2023.

#### **On-Site Drinking Water Wells**

Previously contaminants were detected in the on-site drinking water wells for the school. Re-testing on PW 7 and the Point of Entry (POE) to the school drinking water supply were resampled on March 9, 2023, Some low levels of trihalomethanes were detected in the POE sample from the chlorination process. No other contaminants were detected. A copy of the laboratory report for this well is provided in Attachment C.

Based on the available information, including groundwater flow directions, locations and distances of these wells from the spill and topography of the school complex, PAHs previously detected in the schools drinking water are clearly not from the August heating oil release that triggered our current response.

Based on discussions with the health department, treatment of the previously effected wells is not necessary at this time.

#### **Future Work**

A substantial amount of the necessary site characterization work is complete. We are currently proposing two additional monitoring wells between MW-6 and MW-7 and between MW-9 and MW-10, additional soil sampling will also be performed at deeper intervals in the outdoor remedial area at the same time. This work will be completed by the third week of May.

We are currently working on a Remedial Action Work Plan and for using Oxygen Release Compound as the remedial technology is currently in progress. Preliminary plans are to apply/inject ORC in the exterior excavation area, beneath the floor in the boiler room and use ORC or other injectable as a barrier wall on the western portion of the property.

Additional borings and wells will be installed the week of May 15, 2023. Sample results will be available late in May. If any substantial petroleum is found at depth in the former holding tank remedial area, we would plan a subsequent dewatering and excavation event to remove impacted soil.

The drinking water well we have identified as most at risk is [REDACTED]. We are proposing sampling this drinking water source once a month going forward for VOCs only.

Our remedial action work plan would be submitted in the first week of May and we believe initial steps could be implemented in late May if approved.

Respectfully submitted,

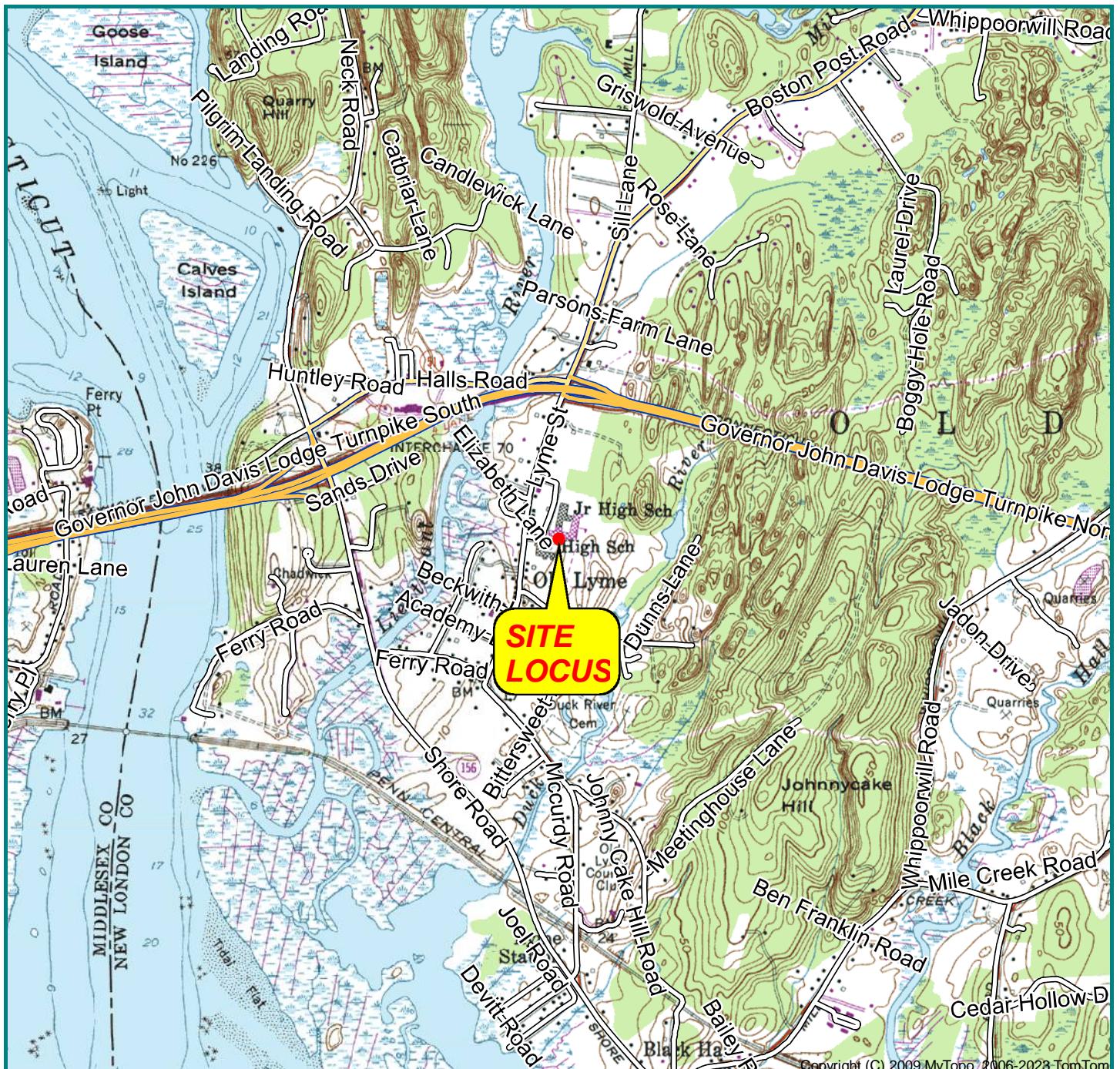
**TURNER ENVIRONMENTAL, LLC**

*David T. Turner*

David T. Turner, LEP

Attachments

## Figures

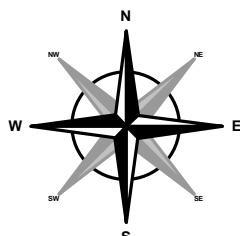


OLD LYME Topographic 1958 41072-C3-TF-024 National Geodetic Vertical Datum 1929

SCALE 1:24000

0 1000 2000 3000 4000 5000  
FEET

Site Coordinates:  
041° 19' 04.35" N, 072° 19' 42.04" W

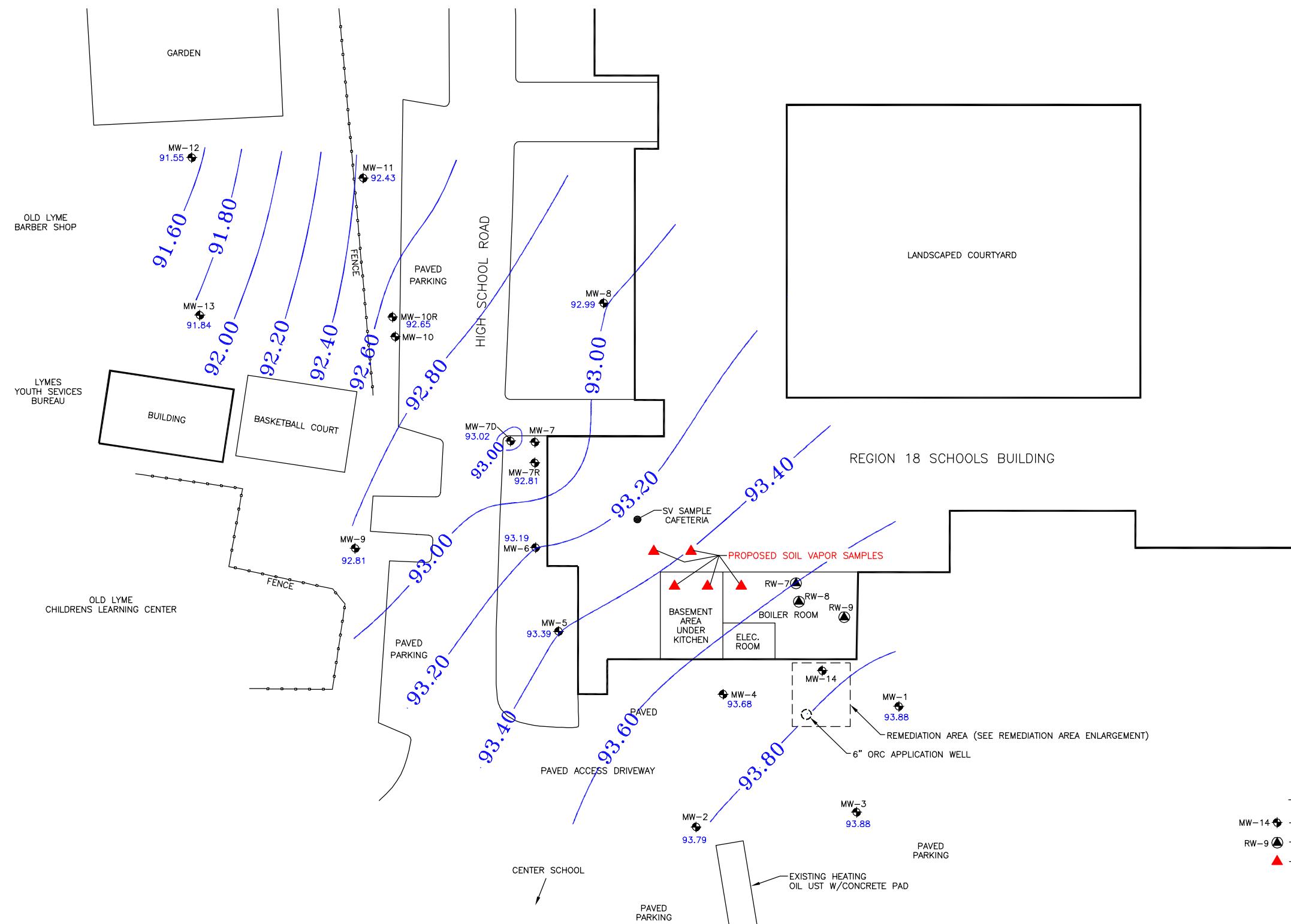


Turner Environmental LLC  
P.O. Box 581, East Lyme, CT 06333  
(860) 705-8704 turnerenviro@att.net

Site Location:  
47 Lyme Street  
New London County,  
Old Lyme, CT

Project: TE 23-007 Date: 3/9/23

**Figure-1**  
**Site Locus Map**



#### LEGEND

- MW-14 - EXISTING MONITORING WELL
- RW-9 - EXISTING RECOVERY WELL
- ▲ - PROPOSED SOIL VAPOR SAMPLES

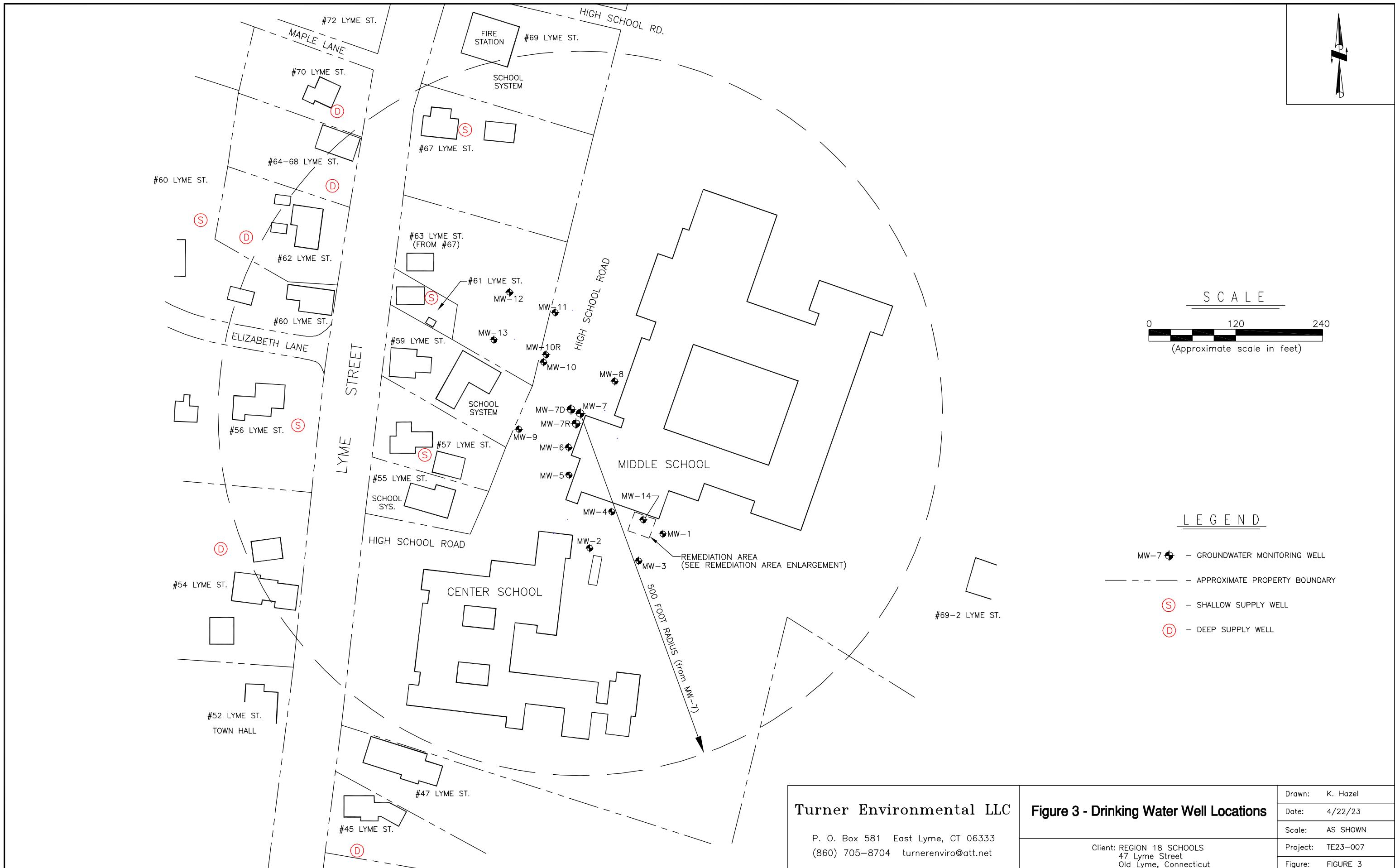
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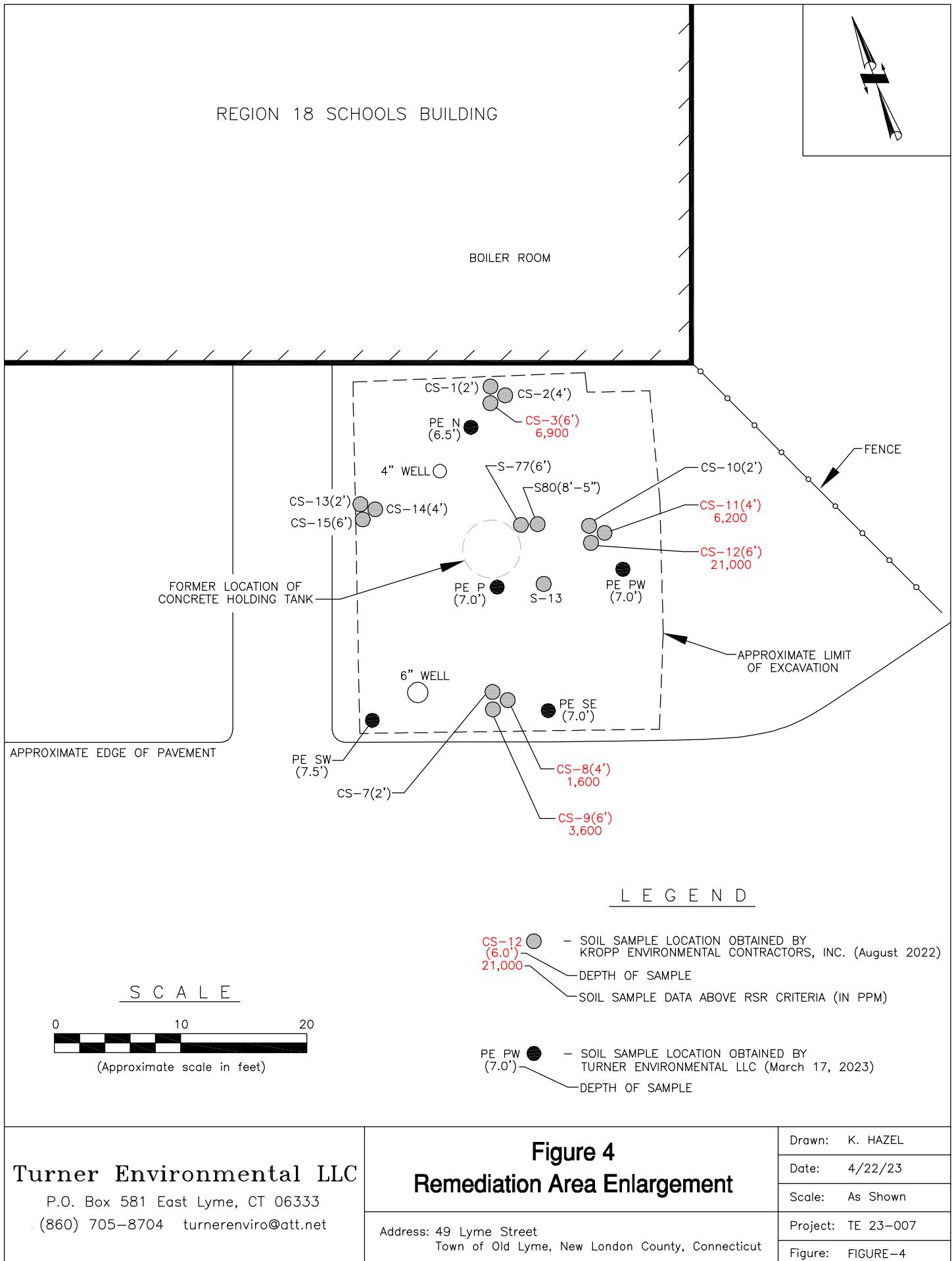
Turner Environmental LLC

P. O. Box 581 East Lyme, CT 06333  
(860) 705-8704 turnerenviro@att.net

Figure 2 - Site Plan

Drawn:	K. Hazel
Date:	4/22/23
Scale:	AS SHOWN
Client:	REGION 18 SCHOOLS 47 Lyme Street Old Lyme, Connecticut
Project:	TE23-007
Figure:	FIGURE 2





## **Monitoring Well Summary Table**

Sample ID	Yerk ID	Sampling Date	CTDEP RSR Groundwater Protection	CTDEP RSR Surface-Water Protection	CTDEP RSR Volatization Criteria for Groundwater Indust Comm	CTDEP RSR Volatization Criteria for Groundwater Residential	MW-2 23B1367-01 2/23/2023 2:30:00 PM Water	MW-5 23B1367-02 2/23/2023 3:00:00 PM Water	MW-6 23B1367-03 2/23/2023 5:10:00 PM Water	MW-9 23B1367-04 2/23/2023 6:05:00 PM Water	MW-S 23B1367-05 2/24/2023 12:45:00 PM Water	MW-11 23B1367-06 2/24/2023 1:45:00 PM Water	MW-S 23B1367-07 2/24/2023 3:00:00 PM Water	MW-BR 23C0185-01 3/2/2023 2:10:00 PM Water	MW-TR 23C0185-02 3/2/2023 5:45:00 PM Water	MW-JD 23C1369-03 3/2/2023 9:00:00 PM Water	MW-12 23C1369-01 3/30/2023 5:35:00 PM Water	MW-13 23C1369-02 3/30/2023 6:30:00 PM Water	MW-14 23C1369-01 3/30/2023 7:30:00 PM Water
VOA_B270 LOW RCP MASTER																			
Dilution Factor			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L		
1,1,1-Tetrachloroethane	630-20-6	1	~	50	12	5	1	1	1	1	1	1	1	1	1	1	1		
1,1,1,2-Tetrachloroethane	71-55-6	200	62000	50000	20400	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
1,1,1,2-Tetrachloroethane	79-34-5	0.5	~	110	100	23	~	~	~	~	~	~	~	~	~	~	~		
1,1,2,2-Tetrachloroethane	79-00-5	5	1260	19600	8000	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
1,1-Dichloroethane	75-34-3	70	~	50000	34600	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
1,1-Dichloroethylene	75-35-4	7	96	6	1	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
1,1-Dichloroethylene	59-66-6	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,2,3-Trichlorobenzene	87-61-6	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,2,3-Trichloropropane	96-18-4	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,2,4-Trichlorobenzene	120-82-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,2,4-Trichloropropane	95-18-6	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,2-Dibromo-1-chloropropane	96-12-8	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,2-Dibromoethane	106-93-4	0.05	600	170000	30500	500	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500		
1,2-Dibromoethane	95-50-1	2970	90	21	3000	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500		
1,2-Dichloropropane	78-47-5	5	~	60	14	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
1,3,5-Trimethylbenzene	108-67-8	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,3-Dichlorobenzene	541-73-1	600	26000	50000	24200	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
1,3-Dichlorobenzene	541-74-2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
1,4-Dichlorobenzene	106-46-7	75	26000	50000	50000	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
2-Dichloropropane	594-20-7	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
2-Butanone	78-93-3	400	~	50000	50000	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
2-Chlorotoluene	95-49-8	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
2-Ethyltoluene	95-65-6	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
4-Chloro-2-pentanone	106-43-4	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Acetone	67-64-1	350	~	50000	50000	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
Acrylonitrile	71-43-2	1	20	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500		
Benzene	78-10-7	710	530	215	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500		
Bromobenzene	108-61-1	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Bromochloromethane	74-97-5	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Bromomethane	74-83-9	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Carbon disulfide	75-15-9	4	10800	3800	920	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
Carbon tetrachloride	54-11-5	5	131	45	15	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
Chlorobenzene	108-90-7	100	42000	6150	1800	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
Chloroethane	75-00-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Chloroform	67-66-2	6	14100	710	287	500	U	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U		
Chloroformate	74-87-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
cis-1,2-Dichloroethylene	59-59-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
cis-1,3-Dichloropropene	10061-01-5	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Dibromochloromethane	124-48-1	0.5	1020	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Dibromomethane	74-93-2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Dichlorodifluoromethane	74-19-8	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Ethyl Benzene	100-41-4	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Hexachlorobutadiene	98-68-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~		
Isopropylbenzene	98-82-8	~	~	~	~	~													

**Attachment A:**  
**Laboratory Report**

**Exterior Samples – Holding Tank Confirmation Samples**



# Technical Report

prepared for:

**Turner Environmental, LLC**  
68 Ridge Hill Rd.  
Oakdale CT, 06357  
**Attention: David Turner**

Report Date: 03/29/2023

**Client Project ID: TE 23-007 Region 18 Oil Spill**  
York Project (SDG) No.: 23C1166

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371



■  
132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 03/29/2023

Client Project ID: TE 23-007 Region 18 Oil Spill  
York Project (SDG) No.: 23C1166

**Turner Environmental, LLC**

68 Ridge Hill Rd.  
Oakdale CT, 06357  
Attention: David Turner

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## 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 March 21, 2023 and listed below. The project was identified as your project: **TE 23-007 Region 18 Oil Spill**.

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>
23C1166-01	Pipe 7'	Soil	03/17/2023	03/21/2023
23C1166-02	N Rem 6.5'	Soil	03/17/2023	03/21/2023
23C1166-03	SE Com Rem 6.5'	Soil	03/20/2023	03/21/2023
23C1166-04	SW Com Rem 6.5'	Soil	03/20/2023	03/21/2023

## **General Notes for York Project (SDG) No.: 23C1166**

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:** 03/29/2023

Cassie L. Mosher  
Laboratory Manager





## Sample Information

**Client Sample ID:** Pipe 7'

**York Sample ID:** 23C1166-01

**York Project (SDG) No.**  
23C1166

**Client Project ID**

TE 23-007 Region 18 Oil Spill

**Matrix**  
Soil

**Collection Date/Time**  
March 17, 2023 3:00 pm

**Date Received**  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR



## Sample Information

Client Sample ID: Pipe 7'

York Sample ID: 23C1166-01

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 17, 2023 3:00 pm

Date Received  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
591-78-6	2-Hexanone	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
67-64-1	Acetone	ND		ug/kg dry	12	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
107-13-1	Acrylonitrile	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
71-43-2	Benzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
108-86-1	Bromobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
74-97-5	Bromochloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
75-25-2	Bromoform	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
74-83-9	Bromomethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
75-15-0	Carbon disulfide	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
108-90-7	Chlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
75-00-3	Chloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
67-66-3	Chloroform	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
74-87-3	Chloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/24/2023 09:00	03/24/2023 13:32	FTR
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
74-95-3	Dibromomethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR



## Sample Information

**Client Sample ID:** Pipe 7'

**York Sample ID:** 23C1166-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 17, 2023 3:00 pm	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
80-62-6	Methyl Methacrylate	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
75-09-2	Methylene chloride	ND		ug/kg dry	12	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
91-20-3	Naphthalene	ND		ug/kg dry	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:32	FTR
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
95-47-6	o-Xylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/24/2023 09:00	03/24/2023 13:32	FTR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	12	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/24/2023 09:00	03/24/2023 13:32	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
100-42-5	Styrene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
109-99-9	Tetrahydrofuran	ND		ug/kg dry	12	1	EPA 8260C Certifications:	03/24/2023 09:00	03/24/2023 13:32	FTR
108-88-3	Toluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications:	03/24/2023 09:00	03/24/2023 13:32	FTR
79-01-6	Trichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR



## Sample Information

Client Sample ID: Pipe 7'

York Sample ID: 23C1166-01

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 17, 2023 3:00 pm

Date Received  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:32	FTR
<b>Surrogate Recoveries</b>										
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %			70-130					
2037-26-5	Surrogate: SURR: Toluene-d8	95.6 %			70-130					
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	90.3 %			70-130					

### Semi-Volatiles, CT RCP PAH List

Sample Prepared by Method: EPA 3546- SVOA RCP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 12:13	KH
83-32-9	Acenaphthene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
120-12-7	Anthracene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
218-01-9	Chrysene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
53-70-3	Dibenz(a,h)anthracene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
206-44-0	Fluoranthene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
86-73-7	Fluorene	ND		ug/kg dry	665	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
91-20-3	Naphthalene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 12:13	KH



## Sample Information

<u>Client Sample ID:</u> Pipe 7'		<u>York Sample ID:</u> 23C1166-01
<u>York Project (SDG) No.</u> 23C1166	<u>Client Project ID</u> TE 23-007 Region 18 Oil Spill	<u>Matrix</u> Soil <u>Collection Date/Time</u> March 17, 2023 3:00 pm <u>Date Received</u> 03/21/2023

### Semi-Volatiles, CT RCP PAH List

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
129-00-0	Pyrene	ND		ug/kg dry	665	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:13	KH
<b>Surrogate Recoveries</b>										
Surrogate: SURR: Nitrobenzene-d5      Result      Acceptance Range										
4165-60-0	<i>Surrogate: SURR: Nitrobenzene-d5</i>	71.3 %			30-130					
321-60-8	<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	65.4 %			30-130					
1718-51-0	<i>Surrogate: SURR: Terphenyl-d14</i>	86.2 %			30-130					

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	434		mg/kg dry	257	5	CT DEP ETPH Certifications: CTDOH-PH-0723	03/23/2023 08:30	03/25/2023 16:53	GXB
<b>Surrogate Recoveries</b>										
3386-33-2	<i>Surrogate: 1-Chlorooctadecane</i>	50.8 %			50-150					

### Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	73.3		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/28/2023 14:32	03/28/2023 22:07	AGNR

## Sample Information

<u>Client Sample ID:</u> N Rem 6.5'		<u>York Sample ID:</u> 23C1166-02
<u>York Project (SDG) No.</u> 23C1166	<u>Client Project ID</u> TE 23-007 Region 18 Oil Spill	<u>Matrix</u> Soil <u>Collection Date/Time</u> March 17, 2023 2:00 pm <u>Date Received</u> 03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJII	03/24/2023 09:00	03/24/2023 13:58	FTR
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJII	03/24/2023 09:00	03/24/2023 13:58	FTR



## Sample Information

**Client Sample ID:** N Rem 6.5'

**York Sample ID:** 23C1166-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 17, 2023 2:00 pm	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
78-93-3	2-Butanone	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
95-49-8	2-Chlorotoluene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
591-78-6	2-Hexanone	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR



## Sample Information

**Client Sample ID:** N Rem 6.5'

**York Sample ID:** 23C1166-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 17, 2023 2:00 pm	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
67-64-1	Acetone	ND		ug/kg dry	13	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
107-13-1	Acrylonitrile	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
71-43-2	Benzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
108-86-1	Bromobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
74-97-5	Bromochloromethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
75-27-4	Bromodichloromethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-25-2	Bromoform	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
74-83-9	Bromomethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-15-0	Carbon disulfide	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
56-23-5	Carbon tetrachloride	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
108-90-7	Chlorobenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-00-3	Chloroethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
67-66-3	Chloroform	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
74-87-3	Chloromethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
124-48-1	Dibromochloromethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
74-95-3	Dibromomethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
100-41-4	Ethyl Benzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR



## Sample Information

**Client Sample ID:** N Rem 6.5'

**York Sample ID:** 23C1166-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 17, 2023 2:00 pm	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
80-62-6	Methyl Methacrylate	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-09-2	Methylene chloride	ND		ug/kg dry	13	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
91-20-3	Naphthalene	ND		ug/kg dry	13	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/24/2023 09:00	03/24/2023 13:58	FTR
104-51-8	n-Butylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
103-65-1	n-Propylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
95-47-6	o-Xylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/24/2023 09:00	03/24/2023 13:58	FTR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	13	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/24/2023 09:00	03/24/2023 13:58	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
100-42-5	Styrene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
127-18-4	Tetrachloroethylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
109-99-9	Tetrahydrofuran	ND		ug/kg dry	13	1	EPA 8260C Certifications:	03/24/2023 09:00	03/24/2023 13:58	FTR
108-88-3	Toluene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications:	03/24/2023 09:00	03/24/2023 13:58	FTR
79-01-6	Trichloroethylene	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
75-01-4	Vinyl Chloride	ND		ug/kg dry	6.7	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/24/2023 09:00	03/24/2023 13:58	FTR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
17060-07-0	Surrogate: SURN: 1,2-Dichloroethane-d4	107 %	70-130							



## Sample Information

**Client Sample ID:** N Rem 6.5'

**York Sample ID:** 23C1166-02

**York Project (SDG) No.**  
23C1166

**Client Project ID**  
TE 23-007 Region 18 Oil Spill

**Matrix**  
Soil

**Collection Date/Time**  
March 17, 2023 2:00 pm

**Date Received**  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: SURR: Toluene-d8	95.8 %			70-130					
460-00-4	Surrogate: SURR: <i>p</i> -Bromofluorobenzene	89.3 %			70-130					

### Semi-Volatiles, CT RCP PAH List

Sample Prepared by Method: EPA 3546- SVOA RCP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 12:43	KH
83-32-9	Acenaphthene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
120-12-7	Anthracene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
218-01-9	Chrysene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
53-70-3	Dibenz(a,h)anthracene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
206-44-0	Fluoranthene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
86-73-7	Fluorene	ND		ug/kg dry	535	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
91-20-3	Naphthalene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 12:43	KH
85-01-8	Phenanthrene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH
129-00-0	Pyrene	ND		ug/kg dry	535	2	EPA 8270D Certifications: CTDOD-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 12:43	KH

#### Surrogate Recoveries

	Result	Acceptance Range
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	66.2 %
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	70.6 %



## Sample Information

Client Sample ID: N Rem 6.5'

York Sample ID: 23C1166-02

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 17, 2023 2:00 pm

Date Received  
03/21/2023

### Semi-Volatiles, CT RCP PAH List

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1718-51-0	Surrogate: SURR: Terphenyl-d14	80.8 %			30-130					

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	43.4	1	CT DEP ETPH Certifications: CTDOH-PH-0723	03/23/2023 08:30	03/25/2023 13:41	GXB
<b>Surrogate Recoveries</b>										
3386-33-2	Surrogate: 1-Chlorooctadecane	87.5 %			50-150					

### Total Solids

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	89.4		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/28/2023 14:32	03/28/2023 22:07	AGNR

## Sample Information

Client Sample ID: SE Com Rem 6.5'

York Sample ID: 23C1166-03

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 20, 2023 10:00 am

Date Received  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJF	03/23/2023 09:00	03/23/2023 13:49	FTR
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJF	03/23/2023 09:00	03/23/2023 13:49	FTR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJF	03/23/2023 09:00	03/23/2023 13:49	FTR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJF	03/23/2023 09:00	03/23/2023 13:49	FTR



## Sample Information

Client Sample ID: SE Com Rem 6.5'

York Sample ID: 23C1166-03

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 20, 2023 10:00 am

Date Received  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
78-93-3	2-Butanone	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
591-78-6	2-Hexanone	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
67-64-1	Acetone	ND		ug/kg dry	12	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR



## Sample Information

Client Sample ID: SE Com Rem 6.5'

York Sample ID: 23C1166-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 20, 2023 10:00 am	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
71-43-2	Benzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
108-86-1	Bromobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
74-97-5	Bromochloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
75-25-2	Bromoform	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
74-83-9	Bromomethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
75-15-0	Carbon disulfide	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
108-90-7	Chlorobenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
75-00-3	Chloroethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
67-66-3	Chloroform	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
74-87-3	Chloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
74-95-3	Dibromomethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR
80-62-6	Methyl Methacrylate	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 13:49	FTR



## Sample Information

Client Sample ID: SE Com Rem 6.5'

York Sample ID: 23C1166-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 20, 2023 10:00 am	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/kg dry	12	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
91-20-3	Naphthalene	ND		ug/kg dry	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 13:49	FTR
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
95-47-6	o-Xylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/23/2023 09:00	03/23/2023 13:49	FTR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	12	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/23/2023 09:00	03/23/2023 13:49	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
100-42-5	Styrene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
109-99-9	Tetrahydrofuran	ND		ug/kg dry	12	1	EPA 8260C Certifications:	03/23/2023 09:00	03/23/2023 13:49	FTR
108-88-3	Toluene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications:	03/23/2023 09:00	03/23/2023 13:49	FTR
79-01-6	Trichloroethylene	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.8	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ1	03/23/2023 09:00	03/23/2023 13:49	FTR

#### Surrogate Recoveries

	Result	Acceptance Range
17060-07-0	Surrogate: Surr: 1,2-Dichloroethane-d4	105 %
2037-26-5	Surrogate: Surr: Toluene-d8	70-130
460-00-4	Surrogate: Surr: p-Bromoformobenzene	91.4 %

### Semi-Volatiles, CT RCP PAH List

#### Log-in Notes:

#### Sample Notes:



## Sample Information

Client Sample ID: SE Com Rem 6.5'

York Sample ID: 23C1166-03

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 20, 2023 10:00 am	03/21/2023

Sample Prepared by Method: EPA 3546- SVOA RCP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 13:14	KH
83-32-9	Acenaphthene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
120-12-7	Anthracene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
218-01-9	Chrysene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
53-70-3	Dibenz(a,h)anthracene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
206-44-0	Fluoranthene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
86-73-7	Fluorene	ND		ug/kg dry	554	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
91-20-3	Naphthalene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 13:14	KH
85-01-8	Phenanthrene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH
129-00-0	Pyrene	ND		ug/kg dry	554	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:14	KH

### Surrogate Recoveries      Result      Acceptance Range

4165-60-0	Surrogate: SURR: Nitrobenzene-d5	111 %	30-130
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	118 %	30-130
1718-51-0	Surrogate: SURR: Terphenyl-d14	140 %	S-08

## Extractable Total Petroleum Hydrocarbons (ETPH)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3546 ETPH

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	43.7	1	CT DEP ETPH Certifications: CTDOH-PH-0723	03/23/2023 08:30	03/25/2023 14:19	GXB

### Surrogate Recoveries      Result      Acceptance Range

120 RESEARCH DRIVE	STRATFORD, CT 06615	■	132-02 89th AVENUE	RICHMOND HILL, NY 11418
www.YORKLAB.com	(203) 325-1371		FAX (203) 357-0166	ClientServices@



## Sample Information

Client Sample ID: SE Com Rem 6.5'

York Sample ID: 23C1166-03

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 20, 2023 10:00 am

Date Received  
03/21/2023

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3546 ETPH

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
3386-33-2	Surrogate: 1-Chlorooctadecane	90.9 %			50-150					

### Total Solids

Sample Prepared by Method: % Solids Prep

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	87.2		%	0.100	1	SM 2540G	03/28/2023 14:32	03/28/2023 22:07	AGNR

## Sample Information

Client Sample ID: SW Com Rem 6.5'

York Sample ID: 23C1166-04

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 20, 2023 9:30 am

Date Received  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ					
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ					
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ					
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP					
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ					
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ					
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ					
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP					
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP					
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					NELAC-NY10854,NELAC-NY12058,NJDEP					
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	5.6	1	EPA 8260C	03/23/2023 09:00	03/23/2023 14:16	FTR
Certifications:					NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP					



## Sample Information

Client Sample ID: SW Com Rem 6.5'

York Sample ID: 23C1166-04

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 20, 2023 9:30 am	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
78-93-3	2-Butanone	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
95-49-8	2-Chlorotoluene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
591-78-6	2-Hexanone	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
106-43-4	4-Chlorotoluene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
67-64-1	Acetone	ND		ug/kg dry	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
107-13-1	Acrylonitrile	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
71-43-2	Benzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
108-86-1	Bromobenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
74-97-5	Bromochloromethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
75-27-4	Bromodichloromethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
75-25-2	Bromoform	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR



## Sample Information

**Client Sample ID:** SW Com Rem 6.5'

**York Sample ID:** 23C1166-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1166	TE 23-007 Region 18 Oil Spill	Soil	March 20, 2023 9:30 am	03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
75-15-0	Carbon disulfide	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
56-23-5	Carbon tetrachloride	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
108-90-7	Chlorobenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
75-00-3	Chloroethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
67-66-3	Chloroform	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
74-87-3	Chloromethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
124-48-1	Dibromochloromethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
74-95-3	Dibromomethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
80-62-6	Methyl Methacrylate	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
75-09-2	Methylene chloride	ND		ug/kg dry	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
91-20-3	Naphthalene	ND		ug/kg dry	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	03/23/2023 09:00	03/23/2023 14:16	FTR
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
95-47-6	o-Xylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/23/2023 09:00	03/23/2023 14:16	FTR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	11	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	03/23/2023 09:00	03/23/2023 14:16	FTR



## Sample Information

Client Sample ID: SW Com Rem 6.5'

York Sample ID: 23C1166-04

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 20, 2023 9:30 am

Date Received  
03/21/2023

### Volatile Organics, CT RCP List

Sample Prepared by Method: EPA 5035A

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
100-42-5	Styrene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
127-18-4	Tetrachloroethylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
109-99-9	Tetrahydrofuran	ND		ug/kg dry	11	1	EPA 8260C Certifications:	03/23/2023 09:00	03/23/2023 14:16	FTR
108-88-3	Toluene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications:	03/23/2023 09:00	03/23/2023 14:16	FTR
79-01-6	Trichloroethylene	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
75-01-4	Vinyl Chloride	ND		ug/kg dry	5.6	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP,NJ	03/23/2023 09:00	03/23/2023 14:16	FTR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %			70-130					
2037-26-5	Surrogate: SURR: Toluene-d8	96.2 %			70-130					
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	90.9 %			70-130					

### Semi-Volatiles, CT RCP PAH List

Sample Prepared by Method: EPA 3546- SVOA RCP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 13:45	KH
83-32-9	Acenaphthene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
120-12-7	Anthracene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH



## Sample Information

Client Sample ID: SW Com Rem 6.5'

York Sample ID: 23C1166-04

York Project (SDG) No.  
23C1166

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Soil

Collection Date/Time  
March 20, 2023 9:30 am

Date Received  
03/21/2023

### Semi-Volatiles, CT RCP PAH List

Sample Prepared by Method: EPA 3546- SVOA RCP

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
218-01-9	Chrysene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
206-44-0	Fluoranthene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
86-73-7	Fluorene	ND		ug/kg dry	553	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
91-20-3	Naphthalene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	03/27/2023 22:16	03/28/2023 13:45	KH
85-01-8	Phenanthrene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
129-00-0	Pyrene	ND		ug/kg dry	553	2	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	03/27/2023 22:16	03/28/2023 13:45	KH
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
4165-60-0	<i>Surrogate: SURR: Nitrobenzene-d5</i>	64.9 %	30-130							
321-60-8	<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	69.5 %	30-130							
1718-51-0	<i>Surrogate: SURR: Terphenyl-d14</i>	77.6 %	30-130							

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA 3546 ETPH

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/kg dry	42.1	1	CT DEP ETPH Certifications: CTDOH-PH-0723	03/23/2023 08:30	03/25/2023 14:58	GXB
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
3386-33-2	<i>Surrogate: 1-Chlorooctadecane</i>	75.3 %	50-150							

### Total Solids

#### Log-in Notes:

#### Sample Notes:



## Sample Information

Client Sample ID: SW Com Rem 6.5'

York Sample ID: 23C1166-04

York Project (SDG) No.

23C1166

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Soil

Collection Date/Time

March 20, 2023 9:30 am

Date Received

03/21/2023

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	% Solids	88.7		%	0.100	1	SM 2540G Certifications: CTDOH-PH-0723	03/28/2023 14:32	03/28/2023 22:07	AGNR



## Analytical Batch Summary

**Batch ID:** BC31536**Preparation Method:** EPA 5035A**Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
23C1166-03	SE Com Rem 6.5'	03/23/23
23C1166-04	SW Com Rem 6.5'	03/23/23
BC31536-BLK1	Blank	03/23/23
BC31536-BLK2	Blank	03/23/23
BC31536-BS1	LCS	03/23/23
BC31536-BSD1	LCS Dup	03/23/23

**Batch ID:** BC31547**Preparation Method:** EPA 3546 ETPH**Prepared By:** agg

YORK Sample ID	Client Sample ID	Preparation Date
23C1166-01	Pipe 7'	03/23/23
23C1166-02	N Rem 6.5'	03/23/23
23C1166-03	SE Com Rem 6.5'	03/23/23
23C1166-04	SW Com Rem 6.5'	03/23/23
BC31547-BLK1	Blank	03/23/23
BC31547-BS1	LCS	03/23/23
BC31547-MS1	Matrix Spike	03/23/23
BC31547-MSD1	Matrix Spike Dup	03/23/23

**Batch ID:** BC31622**Preparation Method:** EPA 5035A**Prepared By:** BMT

YORK Sample ID	Client Sample ID	Preparation Date
23C1166-01	Pipe 7'	03/24/23
23C1166-02	N Rem 6.5'	03/24/23
BC31622-BLK1	Blank	03/24/23
BC31622-BS1	LCS	03/24/23
BC31622-BSD1	LCS Dup	03/24/23

**Batch ID:** BC31761**Preparation Method:** EPA 3546- SVOA RCP**Prepared By:** JES

YORK Sample ID	Client Sample ID	Preparation Date
23C1166-01	Pipe 7'	03/27/23
23C1166-02	N Rem 6.5'	03/27/23
23C1166-03	SE Com Rem 6.5'	03/27/23
23C1166-04	SW Com Rem 6.5'	03/27/23
BC31761-BLK1	Blank	03/27/23
BC31761-BS1	LCS	03/27/23
BC31761-MS1	Matrix Spike	03/27/23
BC31761-MSD1	Matrix Spike Dup	03/27/23

**Batch ID:** BC31869**Preparation Method:** % Solids Prep**Prepared By:** AGNR

YORK Sample ID	Client Sample ID	Preparation Date
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23C1166-01	Pipe 7'	03/28/23
23C1166-02	N Rem 6.5'	03/28/23
23C1166-03	SE Com Rem 6.5'	03/28/23
23C1166-04	SW Com Rem 6.5'	03/28/23
BC31869-DUP1	Duplicate	03/28/23



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	RPD Flag
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#### Batch BC31536 - EPA 5035A

##### Blank (BC31536-BLK1)

Prepared & Analyzed: 03/23/2023

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	"								
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	"								



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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#### Batch BC31536 - EPA 5035A

##### Blank (BC31536-BLK1)

Methyl Methacrylate	ND	5.0	ug/kg wet								
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	"								

Prepared & Analyzed: 03/23/2023

##### Surrogate: Surr: 1,2-Dichloroethane-d4

51.7 ug/L 50.0 103 70-130

##### Surrogate: Surr: Toluene-d8

48.3 " 50.0 96.6 70-130

##### Surrogate: Surr: p-Bromofluorobenzene

45.5 " 50.0 91.0 70-130

##### Blank (BC31536-BLK2)

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	"								

Prepared & Analyzed: 03/23/2023



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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#### Batch BC31536 - EPA 5035A

##### Blank (BC31536-BLK2)

Prepared & Analyzed: 03/23/2023

2-Hexanone	ND	500	ug/kg wet								
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	"								
Methylene chloride	ND	1000	"								
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	"								
<i>Surrogate: SURL: 1,2-Dichloroethane-d4</i>	51.5	ug/L	50.0		103	70-130					
<i>Surrogate: SURL: Toluene-d8</i>	48.5	"	50.0		97.1	70-130					
<i>Surrogate: SURL: p-Bromofluorobenzene</i>	45.9	"	50.0		91.8	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BC31536 - EPA 5035A

LCS (BC31536-BS1) Prepared & Analyzed: 03/23/2023

1,1,1,2-Tetrachloroethane	51.4	ug/L	50.0		103	70-130					
1,1,1-Trichloroethane	53.2	"	50.0		106	70-130					
1,1,2,2-Tetrachloroethane	50.1	"	50.0		100	70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.7	"	50.0		109	70-130					
1,1,2-Trichloroethane	51.5	"	50.0		103	70-130					
1,1-Dichloroethane	50.1	"	50.0		100	70-130					
1,1-Dichloroethylene	51.8	"	50.0		104	70-130					
1,1-Dichloropropylene	50.9	"	50.0		102	70-130					
1,2,3-Trichlorobenzene	48.6	"	50.0		97.2	70-130					
1,2,3-Trichloropropane	50.8	"	50.0		102	70-130					
1,2,4-Trichlorobenzene	48.9	"	50.0		97.9	70-130					
1,2,4-Trimethylbenzene	50.8	"	50.0		102	70-130					
1,2-Dibromo-3-chloropropane	43.6	"	50.0		87.2	70-130					
1,2-Dibromoethane	51.3	"	50.0		103	70-130					
1,2-Dichlorobenzene	51.9	"	50.0		104	70-130					
1,2-Dichloroethane	54.0	"	50.0		108	70-130					
1,2-Dichloropropane	50.1	"	50.0		100	70-130					
1,3,5-Trimethylbenzene	49.5	"	50.0		98.9	70-130					
1,3-Dichlorobenzene	51.6	"	50.0		103	70-130					
1,3-Dichloropropane	50.6	"	50.0		101	70-130					
1,4-Dichlorobenzene	51.4	"	50.0		103	70-130					
2,2-Dichloropropane	47.9	"	50.0		95.9	70-130					
2-Butanone	41.4	"	50.0		82.7	70-130					
2-Chlorotoluene	50.9	"	50.0		102	70-130					
2-Hexanone	41.8	"	50.0		83.6	70-130					
4-Chlorotoluene	50.3	"	50.0		101	70-130					
4-Methyl-2-pentanone	46.3	"	50.0		92.5	70-130					
Acetone	29.8	"	50.0		59.6	70-130	Low Bias				
Acrylonitrile	48.9	"	50.0		97.8	70-130					
Benzene	54.7	"	50.0		109	70-130					
Bromobenzene	47.6	"	50.0		95.2	70-130					
Bromochloromethane	51.7	"	50.0		103	70-130					
Bromodichloromethane	49.4	"	50.0		98.9	70-130					
Bromoform	50.4	"	50.0		101	70-130					
Bromomethane	61.6	"	50.0		123	70-130					
Carbon disulfide	51.3	"	50.0		103	70-130					
Carbon tetrachloride	53.2	"	50.0		106	70-130					
Chlorobenzene	54.0	"	50.0		108	70-130					
Chloroethane	61.0	"	50.0		122	70-130					
Chloroform	53.5	"	50.0		107	70-130					
Chloromethane	43.3	"	50.0		86.6	70-130					
cis-1,2-Dichloroethylene	50.5	"	50.0		101	70-130					
cis-1,3-Dichloropropylene	47.6	"	50.0		95.3	70-130					
Dibromochloromethane	50.9	"	50.0		102	70-130					
Dibromomethane	50.5	"	50.0		101	70-130					
Dichlorodifluoromethane	45.4	"	50.0		90.8	70-130					
Ethyl Benzene	53.0	"	50.0		106	70-130					
Hexachlorobutadiene	47.3	"	50.0		94.5	70-130					
Isopropylbenzene	51.1	"	50.0		102	70-130					
Methyl Methacrylate	46.4	"	50.0		92.9	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BC31536 - EPA 5035A</b>											
<b>LCS (BC31536-BS1)</b>											
Prepared & Analyzed: 03/23/2023											
Methyl tert-butyl ether (MTBE)	47.8		ug/L	50.0	95.7	70-130					
Methylene chloride	50.5		"	50.0	101	70-130					
Naphthalene	49.0		"	50.0	98.0	70-130					
n-Butylbenzene	50.2		"	50.0	100	70-130					
n-Propylbenzene	51.3		"	50.0	103	70-130					
o-Xylene	52.5		"	50.0	105	70-130					
p- & m- Xylenes	109		"	100	109	70-130					
p-Isopropyltoluene	50.6		"	50.0	101	70-130					
sec-Butylbenzene	51.6		"	50.0	103	70-130					
Styrene	54.4		"	50.0	109	70-130					
tert-Butylbenzene	50.6		"	50.0	101	70-130					
Tetrachloroethylene	45.4		"	50.0	90.8	70-130					
Tetrahydrofuran	49.3		"	50.0	98.6	70-130					
Toluene	51.9		"	50.0	104	70-130					
trans-1,2-Dichloroethylene	51.2		"	50.0	102	70-130					
trans-1,3-Dichloropropylene	47.3		"	50.0	94.6	70-130					
trans-1,4-dichloro-2-butene	47.9		"	50.0	95.7	70-130					
Trichloroethylene	50.8		"	50.0	102	70-130					
Trichlorofluoromethane	59.2		"	50.0	118	70-130					
Vinyl Chloride	55.5		"	50.0	111	70-130					
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	51.7		"	50.0	103	70-130					
<i>Surrogate: SURR: Toluene-d8</i>	48.2		"	50.0	96.3	70-130					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	45.7		"	50.0	91.4	70-130					
<b>LCS Dup (BC31536-BSD1)</b>											
Prepared & Analyzed: 03/23/2023											
1,1,1,2-Tetrachloroethane	50.7		ug/L	50.0	101	70-130			1.49	30	
1,1,1-Trichloroethane	52.6		"	50.0	105	70-130			1.17	30	
1,1,2,2-Tetrachloroethane	49.5		"	50.0	98.9	70-130			1.33	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	54.5		"	50.0	109	70-130			0.366	30	
1,1,2-Trichloroethane	50.2		"	50.0	100	70-130			2.66	30	
1,1-Dichloroethane	49.4		"	50.0	98.8	70-130			1.45	30	
1,1-Dichloroethylene	51.7		"	50.0	103	70-130			0.0966	30	
1,1-Dichloropropylene	50.7		"	50.0	101	70-130			0.354	30	
1,2,3-Trichlorobenzene	48.2		"	50.0	96.5	70-130			0.682	30	
1,2,3-Trichloropropane	49.9		"	50.0	99.7	70-130			1.91	30	
1,2,4-Trichlorobenzene	48.8		"	50.0	97.6	70-130			0.246	30	
1,2,4-Trimethylbenzene	50.6		"	50.0	101	70-130			0.276	30	
1,2-Dibromo-3-chloropropane	42.2		"	50.0	84.5	70-130			3.19	30	
1,2-Dibromoethane	50.4		"	50.0	101	70-130			1.79	30	
1,2-Dichlorobenzene	51.3		"	50.0	103	70-130			1.22	30	
1,2-Dichloroethane	52.7		"	50.0	105	70-130			2.53	30	
1,2-Dichloropropane	49.7		"	50.0	99.5	70-130			0.761	30	
1,3,5-Trimethylbenzene	49.6		"	50.0	99.1	70-130			0.222	30	
1,3-Dichlorobenzene	51.5		"	50.0	103	70-130			0.0776	30	
1,3-Dichloropropane	49.4		"	50.0	98.9	70-130			2.36	30	
1,4-Dichlorobenzene	50.9		"	50.0	102	70-130			1.07	30	
2,2-Dichloropropane	47.3		"	50.0	94.6	70-130			1.32	30	
2-Butanone	43.3		"	50.0	86.5	70-130			4.47	30	
2-Chlorotoluene	50.7		"	50.0	101	70-130			0.453	30	
2-Hexanone	40.7		"	50.0	81.5	70-130			2.57	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BC31536 - EPA 5035A</b>											
<b>LCS Dup (BC31536-BSD1)</b>											
Prepared & Analyzed: 03/23/2023											
4-Chlorotoluene	50.1		ug/L	50.0	100	70-130			0.339	30	
4-Methyl-2-pentanone	45.7		"	50.0	91.4	70-130			1.26	30	
Acetone	28.9		"	50.0	57.7	70-130	Low Bias		3.27	30	
Acrylonitrile	49.8		"	50.0	99.5	70-130			1.70	30	
Benzene	54.1		"	50.0	108	70-130			0.992	30	
Bromobenzene	46.9		"	50.0	93.8	70-130			1.40	30	
Bromoform	51.1		"	50.0	102	70-130			1.21	30	
Bromochloromethane	49.2		"	50.0	98.4	70-130			0.446	30	
Bromodichloromethane	48.7		"	50.0	97.5	70-130			3.31	30	
Bromomethane	62.2		"	50.0	124	70-130			0.856	30	
Carbon disulfide	51.0		"	50.0	102	70-130			0.704	30	
Carbon tetrachloride	52.8		"	50.0	106	70-130			0.679	30	
Chlorobenzene	53.6		"	50.0	107	70-130			0.780	30	
Chloroethane	61.0		"	50.0	122	70-130			0.00	30	
Chloroform	53.0		"	50.0	106	70-130			0.845	30	
Chloromethane	42.4		"	50.0	84.7	70-130			2.22	30	
cis-1,2-Dichloroethylene	50.1		"	50.0	100	70-130			0.875	30	
cis-1,3-Dichloropropylene	47.3		"	50.0	94.6	70-130			0.716	30	
Dibromochloromethane	49.9		"	50.0	99.8	70-130			2.00	30	
Dibromomethane	49.5		"	50.0	99.0	70-130			1.94	30	
Dichlorodifluoromethane	44.7		"	50.0	89.4	70-130			1.58	30	
Ethyl Benzene	52.5		"	50.0	105	70-130			0.909	30	
Hexachlorobutadiene	46.6		"	50.0	93.3	70-130			1.34	30	
Isopropylbenzene	50.9		"	50.0	102	70-130			0.431	30	
Methyl Methacrylate	45.4		"	50.0	90.9	70-130			2.18	30	
Methyl tert-butyl ether (MTBE)	46.9		"	50.0	93.8	70-130			2.01	30	
Methylene chloride	49.7		"	50.0	99.5	70-130			1.56	30	
Naphthalene	47.9		"	50.0	95.7	70-130			2.35	30	
n-Butylbenzene	50.6		"	50.0	101	70-130			0.833	30	
n-Propylbenzene	51.2		"	50.0	102	70-130			0.312	30	
o-Xylene	52.2		"	50.0	104	70-130			0.611	30	
p- & m- Xylenes	108		"	100	108	70-130			0.369	30	
p-Isopropyltoluene	50.8		"	50.0	102	70-130			0.296	30	
sec-Butylbenzene	51.3		"	50.0	103	70-130			0.544	30	
Styrene	53.6		"	50.0	107	70-130			1.48	30	
tert-Butylbenzene	50.7		"	50.0	101	70-130			0.119	30	
Tetrachloroethylene	45.5		"	50.0	91.1	70-130			0.286	30	
Tetrahydrofuran	48.0		"	50.0	96.1	70-130			2.55	30	
Toluene	51.9		"	50.0	104	70-130			0.0964	30	
trans-1,2-Dichloroethylene	51.0		"	50.0	102	70-130			0.450	30	
trans-1,3-Dichloropropylene	46.4		"	50.0	92.9	70-130			1.77	30	
trans-1,4-dichloro-2-butene	46.9		"	50.0	93.9	70-130			1.94	30	
Trichloroethylene	50.9		"	50.0	102	70-130			0.197	30	
Trichlorofluoromethane	59.1		"	50.0	118	70-130			0.101	30	
Vinyl Chloride	54.7		"	50.0	109	70-130			1.52	30	
Surrogate: SURL: 1,2-Dichloroethane-d4	51.6		"	50.0	103	70-130					
Surrogate: SURL: Toluene-d8	48.5		"	50.0	96.9	70-130					
Surrogate: SURL: p-Bromofluorobenzene	46.1		"	50.0	92.1	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BC31622 - EPA 5035A

##### Blank (BC31622-BLK1)

Prepared & Analyzed: 03/24/2023

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	"								
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	"								



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BC31622 - EPA 5035A

##### Blank (BC31622-BLK1)

Methyl tert-butyl ether (MTBE)	ND	5.0	ug/kg wet								
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	"								
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	51.9		ug/L	50.0		104		70-130			
<i>Surrogate: SURR: Toluene-d8</i>	48.4		"	50.0		96.9		70-130			
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	45.4		"	50.0		90.7		70-130			

##### LCS (BC31622-BS1)

											Prepared & Analyzed: 03/24/2023
1,1,1,2-Tetrachloroethane	51.5		ug/L	50.0		103		70-130			
1,1,1-Trichloroethane	53.9		"	50.0		108		70-130			
1,1,2,2-Tetrachloroethane	49.0		"	50.0		98.0		70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55.0		"	50.0		110		70-130			
1,1,2-Trichloroethane	51.1		"	50.0		102		70-130			
1,1-Dichloroethane	50.4		"	50.0		101		70-130			
1,1-Dichloroethylene	52.2		"	50.0		104		70-130			
1,1-Dichloropropylene	51.2		"	50.0		102		70-130			
1,2,3-Trichlorobenzene	48.7		"	50.0		97.3		70-130			
1,2,3-Trichloropropane	50.7		"	50.0		101		70-130			
1,2,4-Trichlorobenzene	49.2		"	50.0		98.4		70-130			
1,2,4-Trimethylbenzene	50.3		"	50.0		101		70-130			
1,2-Dibromo-3-chloropropane	43.1		"	50.0		86.3		70-130			
1,2-Dibromoethane	51.4		"	50.0		103		70-130			
1,2-Dichlorobenzene	51.5		"	50.0		103		70-130			
1,2-Dichloroethane	54.5		"	50.0		109		70-130			
1,2-Dichloropropane	50.5		"	50.0		101		70-130			
1,3,5-Trimethylbenzene	49.4		"	50.0		98.8		70-130			
1,3-Dichlorobenzene	51.3		"	50.0		103		70-130			
1,3-Dichloropropane	50.6		"	50.0		101		70-130			
1,4-Dichlorobenzene	50.9		"	50.0		102		70-130			
2,2-Dichloropropane	48.3		"	50.0		96.6		70-130			
2-Butanone	43.9		"	50.0		87.7		70-130			
2-Chlorotoluene	51.0		"	50.0		102		70-130			
2-Hexanone	41.7		"	50.0		83.4		70-130			



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BC31622 - EPA 5035A</b>											
<b>LCS (BC31622-BS1)</b>											
Prepared & Analyzed: 03/24/2023											
4-Chlorotoluene	50.0		ug/L	50.0	100	70-130					
4-Methyl-2-pentanone	46.5		"	50.0	93.0	70-130					
Acetone	30.6		"	50.0	61.2	70-130	Low Bias				
Acrylonitrile	49.7		"	50.0	99.4	70-130					
Benzene	55.0		"	50.0	110	70-130					
Bromobenzene	47.4		"	50.0	94.7	70-130					
Bromoform	52.9		"	50.0	106	70-130					
Bromochloromethane	50.0		"	50.0	100	70-130					
Bromodichloromethane	50.4		"	50.0	101	70-130					
Bromomethane	63.1		"	50.0	126	70-130					
Carbon disulfide	51.5		"	50.0	103	70-130					
Carbon tetrachloride	53.7		"	50.0	107	70-130					
Chlorobenzene	54.3		"	50.0	109	70-130					
Chloroethane	62.6		"	50.0	125	70-130					
Chloroform	54.3		"	50.0	109	70-130					
Chloromethane	43.1		"	50.0	86.1	70-130					
cis-1,2-Dichloroethylene	51.3		"	50.0	103	70-130					
cis-1,3-Dichloropropylene	48.0		"	50.0	96.0	70-130					
Dibromochloromethane	51.0		"	50.0	102	70-130					
Dibromomethane	50.8		"	50.0	102	70-130					
Dichlorodifluoromethane	43.1		"	50.0	86.2	70-130					
Ethyl Benzene	53.1		"	50.0	106	70-130					
Hexachlorobutadiene	47.0		"	50.0	94.0	70-130					
Isopropylbenzene	50.8		"	50.0	102	70-130					
Methyl Methacrylate	46.4		"	50.0	92.8	70-130					
Methyl tert-butyl ether (MTBE)	48.3		"	50.0	96.6	70-130					
Methylene chloride	49.8		"	50.0	99.6	70-130					
Naphthalene	48.7		"	50.0	97.5	70-130					
n-Butylbenzene	50.5		"	50.0	101	70-130					
n-Propylbenzene	51.0		"	50.0	102	70-130					
o-Xylene	52.8		"	50.0	106	70-130					
p- & m- Xylenes	109		"	100	109	70-130					
p-Isopropyltoluene	50.5		"	50.0	101	70-130					
sec-Butylbenzene	51.2		"	50.0	102	70-130					
Styrene	54.6		"	50.0	109	70-130					
tert-Butylbenzene	50.0		"	50.0	100	70-130					
Tetrachloroethylene	45.9		"	50.0	91.8	70-130					
Tetrahydrofuran	49.5		"	50.0	98.9	70-130					
Toluene	52.3		"	50.0	105	70-130					
trans-1,2-Dichloroethylene	51.8		"	50.0	104	70-130					
trans-1,3-Dichloropropylene	47.6		"	50.0	95.2	70-130					
trans-1,4-dichloro-2-butene	47.3		"	50.0	94.7	70-130					
Trichloroethylene	51.2		"	50.0	102	70-130					
Trichlorofluoromethane	60.8		"	50.0	122	70-130					
Vinyl Chloride	55.4		"	50.0	111	70-130					
Surrogate: SURL: 1,2-Dichloroethane-d4	52.2		"	50.0	104	70-130					
Surrogate: SURL: Toluene-d8	48.4		"	50.0	96.7	70-130					
Surrogate: SURL: p-Bromofluorobenzene	46.1		"	50.0	92.2	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BC31622 - EPA 5035A</b>											
<b>LCS Dup (BC31622-BSD1)</b>											
Prepared & Analyzed: 03/24/2023											
1,1,1,2-Tetrachloroethane	49.5		ug/L	50.0	99.0	70-130			3.96	30	
1,1,1-Trichloroethane	51.5		"	50.0	103	70-130			4.56	30	
1,1,2,2-Tetrachloroethane	47.0		"	50.0	93.9	70-130			4.31	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53.0		"	50.0	106	70-130			3.78	30	
1,1,2-Trichloroethane	48.6		"	50.0	97.2	70-130			5.00	30	
1,1-Dichloroethane	48.3		"	50.0	96.7	70-130			4.21	30	
1,1-Dichloroethylene	50.2		"	50.0	100	70-130			3.83	30	
1,1-Dichloropropylene	49.2		"	50.0	98.3	70-130			4.08	30	
1,2,3-Trichlorobenzene	47.2		"	50.0	94.5	70-130			2.98	30	
1,2,3-Trichloropropane	48.0		"	50.0	96.1	70-130			5.45	30	
1,2,4-Trichlorobenzene	47.2		"	50.0	94.4	70-130			4.21	30	
1,2,4-Trimethylbenzene	48.7		"	50.0	97.5	70-130			3.23	30	
1,2-Dibromo-3-chloropropane	41.1		"	50.0	82.1	70-130			4.92	30	
1,2-Dibromoethane	48.8		"	50.0	97.5	70-130			5.19	30	
1,2-Dichlorobenzene	49.6		"	50.0	99.2	70-130			3.78	30	
1,2-Dichloroethane	52.0		"	50.0	104	70-130			4.75	30	
1,2-Dichloropropane	48.3		"	50.0	96.6	70-130			4.51	30	
1,3,5-Trimethylbenzene	47.7		"	50.0	95.4	70-130			3.54	30	
1,3-Dichlorobenzene	49.8		"	50.0	99.6	70-130			3.01	30	
1,3-Dichloropropane	48.2		"	50.0	96.3	70-130			4.92	30	
1,4-Dichlorobenzene	49.2		"	50.0	98.5	70-130			3.34	30	
2,2-Dichloropropane	46.4		"	50.0	92.7	70-130			4.10	30	
2-Butanone	41.3		"	50.0	82.6	70-130			6.04	30	
2-Chlorotoluene	48.8		"	50.0	97.6	70-130			4.37	30	
2-Hexanone	39.6		"	50.0	79.2	70-130			5.17	30	
4-Chlorotoluene	48.3		"	50.0	96.7	70-130			3.36	30	
4-Methyl-2-pentanone	44.2		"	50.0	88.3	70-130			5.16	30	
Acetone	29.2		"	50.0	58.3	70-130	Low Bias		4.92	30	
Acrylonitrile	47.8		"	50.0	95.6	70-130			3.90	30	
Benzene	53.0		"	50.0	106	70-130			3.78	30	
Bromobenzene	45.3		"	50.0	90.6	70-130			4.47	30	
Bromochloromethane	50.6		"	50.0	101	70-130			4.48	30	
Bromodichloromethane	47.8		"	50.0	95.5	70-130			4.58	30	
Bromoform	47.6		"	50.0	95.2	70-130			5.65	30	
Bromomethane	61.2		"	50.0	122	70-130			3.07	30	
Carbon disulfide	49.4		"	50.0	98.7	70-130			4.28	30	
Carbon tetrachloride	51.2		"	50.0	102	70-130			4.82	30	
Chlorobenzene	51.9		"	50.0	104	70-130			4.43	30	
Chloroethane	60.3		"	50.0	121	70-130			3.83	30	
Chloroform	51.6		"	50.0	103	70-130			5.08	30	
Chloromethane	41.0		"	50.0	82.1	70-130			4.83	30	
cis-1,2-Dichloroethylene	49.5		"	50.0	99.0	70-130			3.57	30	
cis-1,3-Dichloropropylene	45.7		"	50.0	91.4	70-130			4.95	30	
Dibromochloromethane	48.4		"	50.0	96.7	70-130			5.26	30	
Dibromomethane	48.3		"	50.0	96.5	70-130			5.19	30	
Dichlorodifluoromethane	41.7		"	50.0	83.4	70-130			3.37	30	
Ethyl Benzene	50.8		"	50.0	102	70-130			4.37	30	
Hexachlorobutadiene	45.5		"	50.0	91.0	70-130			3.18	30	
Isopropylbenzene	49.0		"	50.0	98.0	70-130			3.53	30	
Methyl Methacrylate	44.0		"	50.0	87.9	70-130			5.47	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BC31622 - EPA 5035A

LCS Dup (BC31622-BSD1)	Prepared & Analyzed: 03/24/2023						
Methyl tert-butyl ether (MTBE)	46.2	ug/L	50.0	92.5	70-130	4.40	30
Methylene chloride	47.6	"	50.0	95.1	70-130	4.66	30
Naphthalene	46.9	"	50.0	93.8	70-130	3.81	30
n-Butylbenzene	48.4	"	50.0	96.8	70-130	4.23	30
n-Propylbenzene	49.4	"	50.0	98.7	70-130	3.27	30
o-Xylene	50.5	"	50.0	101	70-130	4.38	30
p- & m- Xylenes	105	"	100	105	70-130	4.03	30
p-Isopropyltoluene	48.8	"	50.0	97.6	70-130	3.46	30
sec-Butylbenzene	49.5	"	50.0	99.1	70-130	3.30	30
Styrene	52.0	"	50.0	104	70-130	4.99	30
tert-Butylbenzene	48.6	"	50.0	97.2	70-130	2.90	30
Tetrachloroethylene	44.0	"	50.0	87.9	70-130	4.32	30
Tetrahydrofuran	47.4	"	50.0	94.8	70-130	4.23	30
Toluene	50.2	"	50.0	100	70-130	4.06	30
trans-1,2-Dichloroethylene	49.7	"	50.0	99.3	70-130	4.12	30
trans-1,3-Dichloropropylene	45.3	"	50.0	90.6	70-130	5.02	30
trans-1,4-dichloro-2-butene	45.3	"	50.0	90.6	70-130	4.43	30
Trichloroethylene	48.9	"	50.0	97.7	70-130	4.58	30
Trichlorofluoromethane	58.3	"	50.0	117	70-130	4.15	30
Vinyl Chloride	53.2	"	50.0	106	70-130	4.07	30
Surrogate: SURR: 1,2-Dichloroethane-d4	51.8	"	50.0	104	70-130		
Surrogate: SURR: Toluene-d8	48.4	"	50.0	96.8	70-130		
Surrogate: SURR: p-Bromofluorobenzene	46.0	"	50.0	92.0	70-130		



## Semivolatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BC31761 - EPA 3546- SVOA RCP

##### Blank (BC31761-BLK1)

2-Methylnaphthalene	ND	249	ug/kg wet								
Acenaphthene	ND	249	"								
Acenaphthylene	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	"								
Chrysene	ND	249	"								
Dibenzo(a,h)anthracene	ND	249	"								
Fluoranthene	ND	249	"								
Fluorene	ND	249	"								
Indeno(1,2,3-cd)pyrene	ND	249	"								
Naphthalene	ND	249	"								
Phenanthrene	ND	249	"								
Pyrene	ND	249	"								
<i>Surrogate: SURR: Nitrobenzene-d5</i>	722		"	1240		58.0	30-130				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	746		"	1240		60.0	30-130				
<i>Surrogate: SURR: Terphenyl-d14</i>	826		"	1240		66.4	30-130				

##### LCS (BC31761-BS1)

2-Methylnaphthalene	847	249	ug/kg wet	1240	68.1	40-140					
Acenaphthene	875	249	"	1240	70.4	40-140					
Acenaphthylene	832	249	"	1240	66.9	40-140					
Anthracene	980	249	"	1240	78.8	40-140					
Benzo(a)anthracene	955	249	"	1240	76.8	40-140					
Benzo(a)pyrene	829	249	"	1240	66.7	40-140					
Benzo(b)fluoranthene	920	249	"	1240	74.0	40-140					
Benzo(g,h,i)perylene	946	249	"	1240	76.1	40-140					
Benzo(k)fluoranthene	967	249	"	1240	77.8	40-140					
Chrysene	940	249	"	1240	75.6	40-140					
Dibenzo(a,h)anthracene	922	249	"	1240	74.1	40-140					
Fluoranthene	919	249	"	1240	73.9	40-140					
Fluorene	905	249	"	1240	72.8	40-140					
Indeno(1,2,3-cd)pyrene	1180	249	"	1240	94.7	40-140					
Naphthalene	856	249	"	1240	68.8	40-140					
Phenanthrene	916	249	"	1240	73.7	40-140					
Pyrene	916	249	"	1240	73.6	40-140					
<i>Surrogate: SURR: Nitrobenzene-d5</i>	882		"	1240	70.9	30-130					
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	832		"	1240	66.9	30-130					
<i>Surrogate: SURR: Terphenyl-d14</i>	989		"	1240	79.5	30-130					



## Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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### Batch BC31761 - EPA 3546- SVOA RCP

Matrix Spike (BC31761-MS1)	*Source sample: 23C1166-04 (SW Com Rem 6.5')						Prepared: 03/27/2023 Analyzed: 03/28/2023			
2-Methylnaphthalene	1060	558	ug/kg dry	1400	ND	75.8	40-140			
Acenaphthene	1040	558	"	1400	ND	74.2	40-140			
Acenaphthylene	945	558	"	1400	ND	67.8	40-140			
Anthracene	1100	558	"	1400	ND	78.7	40-140			
Benzo(a)anthracene	1100	558	"	1400	ND	79.1	40-140			
Benzo(a)pyrene	1090	558	"	1400	ND	78.1	40-140			
Benzo(b)fluoranthene	1120	558	"	1400	ND	80.6	40-140			
Benzo(g,h,i)perylene	1090	558	"	1400	ND	78.1	40-140			
Benzo(k)fluoranthene	1120	558	"	1400	ND	80.4	40-140			
Chrysene	1080	558	"	1400	ND	77.4	40-140			
Dibenz(a,h)anthracene	1100	558	"	1400	ND	78.6	40-140			
Fluoranthene	1090	558	"	1400	ND	77.9	40-140			
Fluorene	1040	558	"	1400	ND	74.3	40-140			
Indeno(1,2,3-cd)pyrene	1380	558	"	1400	ND	98.9	40-140			
Naphthalene	1040	558	"	1400	ND	74.3	40-140			
Phenanthrene	1050	558	"	1400	ND	75.0	40-140			
Pyrene	1040	558	"	1400	ND	74.7	40-140			
Surrogate: SURR: Nitrobenzene-d5	1110		"	1400		79.3	30-130			
Surrogate: SURR: 2-Fluorobiphenyl	1010		"	1400		72.2	30-130			
Surrogate: SURR: Terphenyl-d14	1160		"	1400		82.8	30-130			

Matrix Spike Dup (BC31761-MSD1)	*Source sample: 23C1166-04 (SW Com Rem 6.5')						Prepared: 03/27/2023 Analyzed: 03/28/2023			
2-Methylnaphthalene	1080	553	ug/kg dry	1380	ND	78.4	40-140		2.44	30
Acenaphthene	1110	553	"	1380	ND	80.3	40-140		6.88	30
Acenaphthylene	1060	553	"	1380	ND	76.8	40-140		11.5	30
Anthracene	1230	553	"	1380	ND	89.3	40-140		11.6	30
Benzo(a)anthracene	1190	553	"	1380	ND	85.8	40-140		7.16	30
Benzo(a)pyrene	1120	553	"	1380	ND	80.9	40-140		2.54	30
Benzo(b)fluoranthene	1180	553	"	1380	ND	85.3	40-140		4.71	30
Benzo(g,h,i)perylene	1180	553	"	1380	ND	85.4	40-140		8.02	30
Benzo(k)fluoranthene	1200	553	"	1380	ND	87.0	40-140		6.86	30
Chrysene	1160	553	"	1380	ND	84.2	40-140		7.33	30
Dibenz(a,h)anthracene	1040	553	"	1380	ND	75.6	40-140		4.93	30
Fluoranthene	1130	553	"	1380	ND	82.1	40-140		4.22	30
Fluorene	1120	553	"	1380	ND	80.7	40-140		7.27	30
Indeno(1,2,3-cd)pyrene	1350	553	"	1380	ND	98.0	40-140		1.88	30
Naphthalene	1110	553	"	1380	ND	80.4	40-140		6.88	30
Phenanthrene	1160	553	"	1380	ND	84.2	40-140		10.7	30
Pyrene	1180	553	"	1380	ND	85.3	40-140		12.2	30
Surrogate: SURR: Nitrobenzene-d5	1150		"	1380		83.5	30-130			
Surrogate: SURR: 2-Fluorobiphenyl	1140		"	1380		82.5	30-130			
Surrogate: SURR: Terphenyl-d14	1340		"	1380		96.8	30-130			



## Gas Chromatography/Flame Ionization Detector - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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#### Batch BC31547 - EPA 3546 ETPH

##### Blank (BC31547-BLK1)

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	39.6	mg/kg wet						Prepared: 03/23/2023	Analyzed: 03/24/2023
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Surrogate: *l*-Chlorooctadecane

10.1 " 9.90 102 50-150

##### LCS (BC31547-BS1)

ETPH (Extractable Total Petroleum Hydrocarbons)	57.6	39.6	mg/kg wet	74.3	77.6	39.8-123			Prepared: 03/23/2023	Analyzed: 03/24/2023
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Surrogate: *l*-Chlorooctadecane

7.38 " 9.90 74.5 50-150

##### Matrix Spike (BC31547-MS1)

\*Source sample: 23C1095-02 (Matrix Spike) Prepared: 03/23/2023 Analyzed: 03/26/2023

ETPH (Extractable Total Petroleum Hydrocarbons)	71.2	42.9	mg/kg dry	80.3	62.4	11.0	50-150	Low Bias		
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Surrogate: *l*-Chlorooctadecane

8.74 " 10.7 81.6 50-150

##### Matrix Spike Dup (BC31547-MSD1)

\*Source sample: 23C1095-02 (Matrix Spike Dup) Prepared: 03/23/2023 Analyzed: 03/25/2023

ETPH (Extractable Total Petroleum Hydrocarbons)	82.9	42.9	mg/kg dry	80.3	62.4	25.5	50-150	Low Bias	15.2	30
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Surrogate: *l*-Chlorooctadecane

9.54 " 10.7 89.1 50-150



### Miscellaneous Physical Parameters - Quality Control Data

#### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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#### Batch BC31869 - % Solids Prep

Duplicate (BC31869-DUP1)	*Source sample: 23C1168-09 (Duplicate)					Prepared & Analyzed: 03/28/2023				
% Solids	79.1	0.100	%		79.5			0.516	20	



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23C1166-01	Pipe 7'	40mL Vial with Stir Bar-Cool 4° C
23C1166-02	N Rem 6.5'	40mL Vial with Stir Bar-Cool 4° C
23C1166-03	SE Com Rem 6.5'	40mL Vial with Stir Bar-Cool 4° C
23C1166-04	SW Com Rem 6.5'	40mL Vial with Stir Bar-Cool 4° C



## Sample and Data Qualifiers Relating to This Work Order

- S-08 The recovery of this surrogate was outside of QC limits.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
- 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.

### 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.

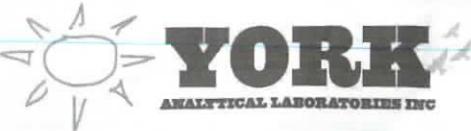
2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

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.



## ***Field Chain-of-Custody Record***

**YORK Project No.**

23C1166

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

120 Research Drive Stratford, CT 06615 - 132-02 89th Ave Queens, NY 11418 - 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

Page \_\_\_\_\_ of \_\_\_\_\_

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Turner Environmental P.O. Box 581 Eggert Lyme CT	Company: SAME	Company: SAME	IE 23-007	RUSH - Next Day
Address: P.O. Box 581 Eggert Lyme CT	Address:	Address:	YOUR Project Name Region 18 Oil Spill	RUSH - Two Day
Phone.: 860 705-8704	Phone.: 860 705-8704	Phone.: 860 705-8704		RUSH - Three Day
Contact: Dr. Turner	Contact:	Contact:		RUSH - Four Day
E-mail: TurnerEnviro@Hotmail.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) (7-10 for PFAS)

*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.*

David Turner  
Mr. T.

**Samples Collected by:** (print AND sign your name)

Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	<input type="checkbox"/>	Summary Report	CT RCP	EQuIS (Standard)
GW - groundwater	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	NYSDEC EQuIS
DW - drinking water	Connecticut	<input checked="" type="checkbox"/>	Standard Excel EDD	NJDEP Reduced	NJDKQP
WW - wastewater	Pennsylvania	<input type="checkbox"/>	NY ASP B Package	Deliverables	NJDEP SRP HazSite
O - Oil	Other	<input type="checkbox"/>	Other:		

Sample Identification	Sample Matrix	Date/Time Sampled	Analyses Requested	Container Type	No.
Pipes 7'	S	3/17/23 15:00	CT ETRH, VOCs 826, PAHs 8270	4x100 mL 402	5
N Rem. 6.5'	S	3/17/23 14:00			
SE Corn. Rem 6.5'	S	3/18/23 10:00			
SW Corn. Rem 6.5'	S	3/19/23 9:30			

Comments: Region 18 is exempt

Samples iced/chilled at time of lab pickup? circle Yes or No

**Preservation:** (check all that apply)

#### **Special Instruction**

HCl \_\_\_\_\_ MeOH  HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>SO<sub>4</sub> \_\_\_\_\_ NaOH \_\_\_\_\_  
ZnAc Ascorbic Acid Other: Itg. D

Field Filtered  
Lab to Filter

Samples Relinquished by / Company <i>David A. Turner</i>	Date/Time 3/21/23 7:20	1. Samples Received by / Company <i>SHAADWEH YORK</i> 3-21-2023 @ 10:35	Date/Time	2. Samples Relinquished by / Company <i>SHAADWEH</i>	Date/Time 3-21-23 @ 2:15	
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time	
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by <i>ellie</i>	Date/Time 3/21/23 1415	Temperature 60 Degrees C

**Attachment B:**  
**Off-site Monitoring Wells MW-12, MW-13 and**  
**Remedial area well MW-14**



# Technical Report

prepared for:

**Turner Environmental, LLC**  
68 Ridge Hill Rd.  
Oakdale CT, 06357  
**Attention: David Turner**

Report Date: 04/10/2023

**Client Project ID: TE 23-007 Region 18 Oil Spill**  
York Project (SDG) No.: 23C1829

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

■  
132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 04/10/2023  
Client Project ID: TE 23-007 Region 18 Oil Spill  
York Project (SDG) No.: 23C1829

**Turner Environmental, LLC**  
68 Ridge Hill Rd.  
Oakdale CT, 06357  
Attention: David Turner

---

## 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 March 31, 2023 and listed below. The project was identified as your project: **TE 23-007 Region 18 Oil Spill**.

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>
23C1829-01	MW-12	Water	03/30/2023	03/31/2023
23C1829-02	MW-13	Water	03/30/2023	03/31/2023

## **General Notes for York Project (SDG) No.: 23C1829**

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:** 04/10/2023

Cassie L. Mosher  
Laboratory Manager





## Sample Information

**Client Sample ID:** MW-12

**York Sample ID:** 23C1829-01

York Project (SDG) No.

23C1829

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 5:35 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	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 Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	04/06/2023 08:00	04/06/2023 20:37	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
142-28-9	1,3-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
594-20-7	2,2-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA



## Sample Information

Client Sample ID: MW-12

York Sample ID: 23C1829-01

York Project (SDG) No.

23C1829

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 5:35 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
95-49-8	2-Chlorotoluene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
591-78-6	2-Hexanone	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
106-43-4	4-Chlorotoluene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
108-10-1	4-Methyl-2-pentanone	ND	QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
67-64-1	Acetone	ND	QL-02	ug/L	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
107-13-1	Acrylonitrile	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
71-43-2	Benzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
108-86-1	Bromobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-25-2	Bromoform	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
74-83-9	Bromomethane	ND	CCVE, QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-00-3	Chloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
67-66-3	Chloroform	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
74-87-3	Chloromethane	ND	QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
124-48-1	Dibromochloromethane	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
74-95-3	Dibromomethane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA



## Sample Information

Client Sample ID: MW-12

York Sample ID: 23C1829-01

York Project (SDG) No.

23C1829

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 5:35 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND	QL-02	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
98-82-8	Isopropylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
80-62-6	Methyl Methacrylate	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	04/06/2023 08:00	04/06/2023 20:37	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-09-2	Methylene chloride	ND		ug/L	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
91-20-3	Naphthalene	ND		ug/L	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
103-65-1	n-Propylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
95-47-6	o-Xylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
100-42-5	Styrene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
127-18-4	Tetrachloroethylene	ND	CAL-E, CCVE, QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
109-99-9	Tetrahydrofuran	ND	QL-02	ug/L	4.00	1	EPA 8260C Certifications:	04/06/2023 08:00	04/06/2023 20:37	SMA
108-88-3	Toluene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2023 08:00	04/06/2023 20:37	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA



## Sample Information

Client Sample ID: MW-12

York Sample ID: 23C1829-01

York Project (SDG) No.

23C1829

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 5:35 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/06/2023 08:00	04/06/2023 20:37	SMA
<b>Surrogate Recoveries</b>										
17060-07-0	<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	98.0 %			70-130					
2037-26-5	<i>Surrogate: SURR: Toluene-d8</i>	99.1 %			70-130					
460-00-4	<i>Surrogate: SURR: p-Bromofluorobenzene</i>	102 %			70-130					

### SVOA, 8270 LOW RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.13	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:03	KH
<b>Surrogate Recoveries</b>										
4165-60-0	<i>Surrogate: SURR: Nitrobenzene-d5</i>	58.2 %			30-130					
321-60-8	<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	51.8 %			30-130					
1718-51-0	<i>Surrogate: SURR: Terphenyl-d14</i>	49.9 %			30-130					

### SVOA, 8270 SIM RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
120-12-7	Anthracene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
117-81-7	<b>Bis(2-ethylhexyl)phthalate</b>	<b>6.61</b>	ICVE	ug/L	1.03	2	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/07/2023 15:16	KH



## Sample Information

Client Sample ID: MW-12

York Sample ID: 23C1829-01

York Project (SDG) No.  
23C1829

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Water

Collection Date/Time  
March 30, 2023 5:35 pm

Date Received  
03/31/2023

### SVOA, 8270 SIM RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
53-70-3	Dibenz(a,h)anthracene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
86-73-7	Fluorene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND	CCVE	ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
91-20-3	Naphthalene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
85-01-8	Phenanthrene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH
129-00-0	Pyrene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:53	KH

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA SW846-3510C Low Level

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	ND		mg/L	0.154	1	CT DEP ETPH Certifications: CTDOH-PH-0723	04/05/2023 08:11	04/07/2023 11:05	GXB
<b>Surrogate Recoveries</b>										
Surrogate: <i>I</i> -Chlorooctadecane										
Result Acceptance Range										
3386-33-2 87.4 % 30-140										

## Sample Information

Client Sample ID: MW-13

York Sample ID: 23C1829-02

York Project (SDG) No.  
23C1829

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Water

Collection Date/Time  
March 30, 2023 6:30 pm

Date Received  
03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	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 Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA



## Sample Information

**Client Sample ID:** MW-13

**York Sample ID:** 23C1829-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23C1829	TE 23-007 Region 18 Oil Spill	Water	March 30, 2023 6:30 pm	03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
563-58-6	1,1-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	04/10/2023 08:00	04/10/2023 15:41	SMA
87-61-6	1,2,3-Trichlorobenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
96-18-4	1,2,3-Trichloropropane	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
120-82-1	1,2,4-Trichlorobenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>3.85</b>	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/10/2023 08:00	04/10/2023 15:41	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
78-87-5	1,2-Dichloropropane	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
108-67-8	1,3,5-Trimethylbenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
541-73-1	1,3-Dichlorobenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
142-28-9	1,3-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
106-46-7	1,4-Dichlorobenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
594-20-7	2,2-Dichloropropane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
78-93-3	2-Butanone	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
95-49-8	2-Chlorotoluene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
591-78-6	2-Hexanone	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA



## Sample Information

Client Sample ID: MW-13

York Sample ID: 23C1829-02

York Project (SDG) No.

23C1829

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 6:30 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-43-4	4-Chlorotoluene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
67-64-1	Acetone	ND	QL-02	ug/L	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
71-43-2	Benzene	<b>1.18</b>		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
108-86-1	Bromobenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
74-97-5	Bromo(chloromethane)	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-25-2	Bromoform	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
74-83-9	Bromomethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-00-3	Chloroethane	ND	CCVE, QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
67-66-3	Chloroform	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
74-87-3	Chloromethane	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
74-95-3	Dibromomethane	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
100-41-4	Ethyl Benzene	<b>1.63</b>		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
87-68-3	Hexachlorobutadiene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA



## Sample Information

Client Sample ID: MW-13

York Sample ID: 23C1829-02

York Project (SDG) No.

23C1829

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 6:30 pm

Date Received

03/31/2023

### **VOA, 8260 RCP LOW MASTER**

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	<b>Isopropylbenzene</b>	<b>0.550</b>	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
80-62-6	Methyl Methacrylate	ND		ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	04/10/2023 08:00	04/10/2023 15:41	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-09-2	Methylene chloride	ND		ug/L	2.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
91-20-3	Naphthalene	ND		ug/L	2.00	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
103-65-1	n-Propylbenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
95-47-6	<b>o-Xylene</b>	<b>0.810</b>		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>2.58</b>		ug/L	1.00	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
135-98-8	sec-Butylbenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
100-42-5	Styrene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
98-06-6	tert-Butylbenzene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
127-18-4	Tetrachloroethylene	ND	QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
109-99-9	Tetrahydrofuran	ND		ug/L	4.00	1	EPA 8260C Certifications:	04/10/2023 08:00	04/10/2023 15:41	SMA
108-88-3	Toluene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/10/2023 08:00	04/10/2023 15:41	SMA
79-01-6	Trichloroethylene	ND	CAL-E	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-69-4	Trichlorofluoromethane	ND	CCVE, QL-02	ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.500	1	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/10/2023 08:00	04/10/2023 15:41	SMA
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
17060-07-0	Surrogate: SURN: 1,2-Dichloroethane-d4	103 %			70-130					



## Sample Information

Client Sample ID: MW-13

York Sample ID: 23C1829-02

York Project (SDG) No.  
23C1829

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Water

Collection Date/Time  
March 30, 2023 6:30 pm

Date Received  
03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	Surrogate: Surr: Toluene-d8	97.1 %			70-130					
460-00-4	Surrogate: Surr: p-Bromofluorobenzene	98.6 %			70-130					

### SVOA, 8270 LOW RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	ND		ug/L	5.00	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 13:34	KH
<b>Surrogate Recoveries</b>										
Surrogate: Surr: Nitrobenzene-d5 67.4 % 30-130										
Surrogate: Surr: 2-Fluorobiphenyl 76.7 % 30-130										
Surrogate: Surr: Terphenyl-d14 46.8 % 30-130										

### SVOA, 8270 SIM RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
120-12-7	Anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
218-01-9	Chrysene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
206-44-0	Fluoranthene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
86-73-7	Fluorene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND	CCVE	ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH



## Sample Information

Client Sample ID: MW-13      York Sample ID: 23C1829-02

York Project (SDG) No. 23C1829      Client Project ID TE 23-007 Region 18 Oil Spill      Matrix Water      Collection Date/Time March 30, 2023 6:30 pm      Date Received 03/31/2023

### SVOA, 8270 SIM RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	0.220		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
85-01-8	Phenanthrene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH
129-00-0	Pyrene	ND		ug/L	0.0500	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/05/2023 08:15	04/06/2023 14:25	KH

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA SW846-3510C Low Level

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	ETPH (Extractable Total Petroleum Hydrocarbons)	0.165		mg/L	0.154	1	CT DEP ETPH Certifications: CTDOH-PH-0723	04/05/2023 08:11	04/07/2023 11:44	GXB
Surrogate Recoveries		Result	Acceptance Range							
3386-33-2	Surrogate: <i>I</i> -Chlorooctadecane	91.2 %	30-140							



## Analytical Batch Summary

**Batch ID:** BD30283

**Preparation Method:** EPA SW846-3510C Low Level

**Prepared By:** RST

YORK Sample ID	Client Sample ID	Preparation Date
23C1829-01	MW-12	04/05/23
23C1829-02	MW-13	04/05/23
BD30283-BLK1	Blank	04/05/23
BD30283-BS1	LCS	04/05/23
BD30283-BSD1	LCS Dup	04/05/23

**Batch ID:** BD30286

**Preparation Method:** EPA 3510C

**Prepared By:** RST

YORK Sample ID	Client Sample ID	Preparation Date
23C1829-01	MW-12	04/05/23
23C1829-01RE1	MW-12	04/05/23
23C1829-02	MW-13	04/05/23
BD30286-BLK1	Blank	04/05/23
BD30286-BLK2	Blank	04/05/23
BD30286-BS1	LCS	04/05/23
BD30286-BSD1	LCS Dup	04/05/23

**Batch ID:** BD30398

**Preparation Method:** EPA 5030B

**Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23C1829-01	MW-12	04/06/23
BD30398-BLK1	Blank	04/06/23
BD30398-BS1	LCS	04/06/23
BD30398-BS2	LCS	04/06/23
BD30398-BSD1	LCS Dup	04/06/23
BD30398-BSD2	LCS Dup	04/06/23

**Batch ID:** BD30608

**Preparation Method:** EPA 5030B

**Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23C1829-02	MW-13	04/10/23
BD30608-BS1	LCS	04/10/23
BD30608-BSD1	LCS Dup	04/10/23



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD RPD	RPD Limit	Flag
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#### Batch BD30398 - EPA 5030B

##### Blank (BD30398-BLK1)

Prepared & Analyzed: 04/06/2023

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	"



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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#### Batch BD30398 - EPA 5030B

##### Blank (BD30398-BLK1)

Prepared & Analyzed: 04/06/2023

Methyl Methacrylate	ND	0.500	ug/L								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
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

9.81 " 10.0 98.1 70-130

Surrogate: SURR: Toluene-d8

9.83 " 10.0 98.3 70-130

Surrogate: SURR: p-Bromofluorobenzene

10.2 " 10.0 102 70-130

##### LCS (BD30398-BS1)

Prepared & Analyzed: 04/06/2023

1,1,1,2-Tetrachloroethane	9.72	ug/L	10.0	97.2	70-130
1,1,1-Trichloroethane	10.2	"	10.0	102	70-130
1,1,2,2-Tetrachloroethane	9.48	"	10.0	94.8	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5	"	10.0	105	70-130
1,1,2-Trichloroethane	8.93	"	10.0	89.3	70-130
1,1-Dichloroethane	9.33	"	10.0	93.3	70-130
1,1-Dichloroethylene	9.75	"	10.0	97.5	70-130
1,1-Dichloropropylene	9.46	"	10.0	94.6	70-130
1,2,3-Trichlorobenzene	8.94	"	10.0	89.4	70-130
1,2,3-Trichloropropane	9.25	"	10.0	92.5	70-130
1,2,4-Trichlorobenzene	9.32	"	10.0	93.2	70-130
1,2,4-Trimethylbenzene	9.96	"	10.0	99.6	70-130
1,2-Dibromo-3-chloropropane	8.47	"	10.0	84.7	70-130
1,2-Dibromoethane	9.06	"	10.0	90.6	70-130
1,2-Dichlorobenzene	9.47	"	10.0	94.7	70-130
1,2-Dichloroethane	9.07	"	10.0	90.7	70-130
1,2-Dichloropropane	9.72	"	10.0	97.2	70-130
1,3,5-Trimethylbenzene	9.85	"	10.0	98.5	70-130
1,3-Dichlorobenzene	9.68	"	10.0	96.8	70-130
1,3-Dichloropropane	9.05	"	10.0	90.5	70-130
1,4-Dichlorobenzene	9.41	"	10.0	94.1	70-130
2,2-Dichloropropane	11.0	"	10.0	110	70-130
2-Butanone	8.60	"	10.0	86.0	70-130
2-Chlorotoluene	10.1	"	10.0	101	70-130



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30398 - EPA 5030B</b>											
<b>LCS (BD30398-BS1)</b>											
Prepared & Analyzed: 04/06/2023											
2-Hexanone	7.52		ug/L	10.0	75.2	70-130					
4-Chlorotoluene	9.97		"	10.0	99.7	70-130					
4-Methyl-2-pentanone	6.22		"	10.0	62.2	70-130	Low Bias				
Acetone	5.02		"	10.0	50.2	70-130	Low Bias				
Acrylonitrile	9.21		"	10.0	92.1	70-130					
Benzene	9.97		"	10.0	99.7	70-130					
Bromobenzene	9.48		"	10.0	94.8	70-130					
Bromochloromethane	9.54		"	10.0	95.4	70-130					
Bromodichloromethane	9.19		"	10.0	91.9	70-130					
Bromoform	9.00		"	10.0	90.0	70-130					
Bromomethane	5.16		"	10.0	51.6	70-130	Low Bias				
Carbon disulfide	9.92		"	10.0	99.2	70-130					
Carbon tetrachloride	10.2		"	10.0	102	70-130					
Chlorobenzene	10.1		"	10.0	101	70-130					
Chloroethane	10.2		"	10.0	102	70-130					
Chloroform	9.63		"	10.0	96.3	70-130					
Chloromethane	7.21		"	10.0	72.1	70-130					
cis-1,2-Dichloroethylene	9.62		"	10.0	96.2	70-130					
cis-1,3-Dichloropropylene	9.15		"	10.0	91.5	70-130					
Dibromochloromethane	9.12		"	10.0	91.2	70-130					
Dibromomethane	9.19		"	10.0	91.9	70-130					
Dichlorodifluoromethane	5.33		"	10.0	53.3	70-130	Low Bias				
Ethyl Benzene	9.86		"	10.0	98.6	70-130					
Hexachlorobutadiene	10.3		"	10.0	103	70-130					
Isopropylbenzene	10.3		"	10.0	103	70-130					
Methyl Methacrylate	8.54		"	10.0	85.4	70-130					
Methyl tert-butyl ether (MTBE)	8.75		"	10.0	87.5	70-130					
Methylene chloride	8.83		"	10.0	88.3	70-130					
Naphthalene	9.04		"	10.0	90.4	70-130					
n-Butylbenzene	10.2		"	10.0	102	70-130					
n-Propylbenzene	10.3		"	10.0	103	70-130					
o-Xylene	9.84		"	10.0	98.4	70-130					
p- & m- Xylenes	19.6		"	20.0	97.8	70-130					
p-Isopropyltoluene	10.0		"	10.0	100	70-130					
sec-Butylbenzene	10.2		"	10.0	102	70-130					
Styrene	9.74		"	10.0	97.4	70-130					
tert-Butylbenzene	9.77		"	10.0	97.7	70-130					
Tetrachloroethylene	5.89		"	10.0	58.9	70-130	Low Bias				
Tetrahydrofuran	9.66		"	10.0	96.6	70-130					
Toluene	9.83		"	10.0	98.3	70-130					
trans-1,2-Dichloroethylene	9.81		"	10.0	98.1	70-130					
trans-1,3-Dichloropropylene	9.08		"	10.0	90.8	70-130					
trans-1,4-dichloro-2-butene	7.55		"	10.0	75.5	70-130					
Trichloroethylene	9.45		"	10.0	94.5	70-130					
Trichlorofluoromethane	9.96		"	10.0	99.6	70-130					
Vinyl Chloride	8.92		"	10.0	89.2	70-130					
<i>Surrogate: SURL: 1,2-Dichloroethane-d4</i>	9.28		"	10.0	92.8	70-130					
<i>Surrogate: SURL: Toluene-d8</i>	10.0		"	10.0	100	70-130					
<i>Surrogate: SURL: p-Bromofluorobenzene</i>	10.1		"	10.0	101	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30398 - EPA 5030B</b>											
<b>LCS (BD30398-BS2)</b>											
Prepared & Analyzed: 04/06/2023											
1,1,1,2-Tetrachloroethane	9.43		ug/L	10.0	94.3		70-130				
1,1,1-Trichloroethane	9.71		"	10.0	97.1		70-130				
1,1,2,2-Tetrachloroethane	9.52		"	10.0	95.2		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.92		"	10.0	99.2		70-130				
1,1,2-Trichloroethane	9.09		"	10.0	90.9		70-130				
1,1-Dichloroethane	9.28		"	10.0	92.8		70-130				
1,1-Dichloroethylene	9.48		"	10.0	94.8		70-130				
1,1-Dichloropropylene	9.27		"	10.0	92.7		70-130				
1,2,3-Trichlorobenzene	9.70		"	10.0	97.0		70-130				
1,2,3-Trichloropropane	9.23		"	10.0	92.3		70-130				
1,2,4-Trichlorobenzene	9.65		"	10.0	96.5		70-130				
1,2,4-Trimethylbenzene	9.52		"	10.0	95.2		70-130				
1,2-Dibromo-3-chloropropane	10.6		"	10.0	106		70-130				
1,2-Dibromoethane	9.54		"	10.0	95.4		70-130				
1,2-Dichlorobenzene	9.33		"	10.0	93.3		70-130				
1,2-Dichloroethane	9.24		"	10.0	92.4		70-130				
1,2-Dichloropropane	9.49		"	10.0	94.9		70-130				
1,3,5-Trimethylbenzene	9.46		"	10.0	94.6		70-130				
1,3-Dichlorobenzene	9.50		"	10.0	95.0		70-130				
1,3-Dichloropropane	9.07		"	10.0	90.7		70-130				
1,4-Dichlorobenzene	9.37		"	10.0	93.7		70-130				
2,2-Dichloropropane	10.3		"	10.0	103		70-130				
2-Butanone	10.0		"	10.0	100		70-130				
2-Chlorotoluene	9.54		"	10.0	95.4		70-130				
2-Hexanone	8.18		"	10.0	81.8		70-130				
4-Chlorotoluene	9.63		"	10.0	96.3		70-130				
4-Methyl-2-pentanone	6.84		"	10.0	68.4		70-130		Low Bias		
Acetone	5.65		"	10.0	56.5		70-130		Low Bias		
Acrylonitrile	10.1		"	10.0	101		70-130				
Benzene	9.81		"	10.0	98.1		70-130				
Bromobenzene	9.14		"	10.0	91.4		70-130				
Bromochloromethane	9.66		"	10.0	96.6		70-130				
Bromodichloromethane	9.18		"	10.0	91.8		70-130				
Bromoform	9.43		"	10.0	94.3		70-130				
Bromomethane	5.56		"	10.0	55.6		70-130		Low Bias		
Carbon disulfide	9.60		"	10.0	96.0		70-130				
Carbon tetrachloride	9.89		"	10.0	98.9		70-130				
Chlorobenzene	10.1		"	10.0	101		70-130				
Chloroethane	10.0		"	10.0	100		70-130				
Chloroform	9.68		"	10.0	96.8		70-130				
Chloromethane	6.99		"	10.0	69.9		70-130		Low Bias		
cis-1,2-Dichloroethylene	9.52		"	10.0	95.2		70-130				
cis-1,3-Dichloropropylene	9.25		"	10.0	92.5		70-130				
Dibromochloromethane	9.51		"	10.0	95.1		70-130				
Dibromomethane	9.22		"	10.0	92.2		70-130				
Dichlorodifluoromethane	5.12		"	10.0	51.2		70-130		Low Bias		
Ethyl Benzene	9.60		"	10.0	96.0		70-130				
Hexachlorobutadiene	10.1		"	10.0	101		70-130				
Isopropylbenzene	9.69		"	10.0	96.9		70-130				
Methyl Methacrylate	8.99		"	10.0	89.9		70-130				



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD30398 - EPA 5030B

LCS (BD30398-BS2)							Prepared & Analyzed: 04/06/2023				
Methyl tert-butyl ether (MTBE)	9.19		ug/L	10.0	91.9	70-130					
Methylene chloride	8.93		"	10.0	89.3	70-130					
Naphthalene	9.47		"	10.0	94.7	70-130					
n-Butylbenzene	9.68		"	10.0	96.8	70-130					
n-Propylbenzene	9.72		"	10.0	97.2	70-130					
o-Xylene	9.63		"	10.0	96.3	70-130					
p- & m- Xylenes	19.2		"	20.0	95.9	70-130					
p-Isopropyltoluene	9.48		"	10.0	94.8	70-130					
sec-Butylbenzene	9.71		"	10.0	97.1	70-130					
Styrene	9.57		"	10.0	95.7	70-130					
tert-Butylbenzene	9.31		"	10.0	93.1	70-130					
Tetrachloroethylene	5.76		"	10.0	57.6	70-130	Low Bias				
Tetrahydrofuran	9.49		"	10.0	94.9	70-130					
Toluene	9.56		"	10.0	95.6	70-130					
trans-1,2-Dichloroethylene	9.62		"	10.0	96.2	70-130					
trans-1,3-Dichloropropylene	9.15		"	10.0	91.5	70-130					
trans-1,4-dichloro-2-butene	9.58		"	10.0	95.8	70-130					
Trichloroethylene	9.46		"	10.0	94.6	70-130					
Trichlorofluoromethane	9.59		"	10.0	95.9	70-130					
Vinyl Chloride	8.56		"	10.0	85.6	70-130					
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	9.55		"	10.0	95.5	70-130					
<i>Surrogate: SURR: Toluene-d8</i>	9.84		"	10.0	98.4	70-130					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.95		"	10.0	99.5	70-130					

LCS Dup (BD30398-BSD1)							Prepared & Analyzed: 04/06/2023				
1,1,1,2-Tetrachloroethane	9.42		ug/L	10.0	94.2	70-130		3.13	30		
1,1,1-Trichloroethane	9.59		"	10.0	95.9	70-130		5.67	30		
1,1,2,2-Tetrachloroethane	9.95		"	10.0	99.5	70-130		4.84	30		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.72		"	10.0	97.2	70-130		7.43	30		
1,1,2-Trichloroethane	9.02		"	10.0	90.2	70-130		1.00	30		
1,1-Dichloroethane	9.03		"	10.0	90.3	70-130		3.27	30		
1,1-Dichloroethylene	9.02		"	10.0	90.2	70-130		7.78	30		
1,1-Dichloropropylene	9.11		"	10.0	91.1	70-130		3.77	30		
1,2,3-Trichlorobenzene	9.60		"	10.0	96.0	70-130		7.12	30		
1,2,3-Trichloropropane	9.47		"	10.0	94.7	70-130		2.35	30		
1,2,4-Trichlorobenzene	9.39		"	10.0	93.9	70-130		0.748	30		
1,2,4-Trimethylbenzene	9.18		"	10.0	91.8	70-130		8.15	30		
1,2-Dibromo-3-chloropropane	8.88		"	10.0	88.8	70-130		4.73	30		
1,2-Dibromoethane	9.60		"	10.0	96.0	70-130		5.79	30		
1,2-Dichlorobenzene	9.25		"	10.0	92.5	70-130		2.35	30		
1,2-Dichloroethane	9.37		"	10.0	93.7	70-130		3.25	30		
1,2-Dichloropropane	9.38		"	10.0	93.8	70-130		3.56	30		
1,3,5-Trimethylbenzene	9.04		"	10.0	90.4	70-130		8.58	30		
1,3-Dichlorobenzene	9.20		"	10.0	92.0	70-130		5.08	30		
1,3-Dichloropropane	9.17		"	10.0	91.7	70-130		1.32	30		
1,4-Dichlorobenzene	9.00		"	10.0	90.0	70-130		4.45	30		
2,2-Dichloropropane	10.2		"	10.0	102	70-130		7.07	30		
2-Butanone	10.0		"	10.0	100	70-130		15.4	30		
2-Chlorotoluene	9.25		"	10.0	92.5	70-130		8.39	30		
2-Hexanone	8.50		"	10.0	85.0	70-130		12.2	30		



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30398 - EPA 5030B</b>											
<b>LCS Dup (BD30398-BSD1)</b>											
Prepared & Analyzed: 04/06/2023											
4-Chlorotoluene	9.38		ug/L	10.0	93.8	70-130			6.10	30	
4-Methyl-2-pentanone	6.85		"	10.0	68.5	70-130	Low Bias		9.64	30	
Acetone	5.77		"	10.0	57.7	70-130	Low Bias		13.9	30	
Acrylonitrile	10.4		"	10.0	104	70-130			12.4	30	
Benzene	9.61		"	10.0	96.1	70-130			3.68	30	
Bromobenzene	9.07		"	10.0	90.7	70-130			4.42	30	
Bromoform	9.39		"	10.0	93.9	70-130			1.58	30	
Bromochloromethane	9.01		"	10.0	90.1	70-130			1.98	30	
Bromodichloromethane	9.55		"	10.0	95.5	70-130			5.93	30	
Bromomethane	4.80		"	10.0	48.0	70-130	Low Bias		7.23	30	
Carbon disulfide	9.30		"	10.0	93.0	70-130			6.45	30	
Carbon tetrachloride	9.71		"	10.0	97.1	70-130			4.53	30	
Chlorobenzene	9.82		"	10.0	98.2	70-130			2.81	30	
Chloroethane	9.57		"	10.0	95.7	70-130			6.18	30	
Chloroform	9.41		"	10.0	94.1	70-130			2.31	30	
Chloromethane	6.76		"	10.0	67.6	70-130	Low Bias		6.44	30	
cis-1,2-Dichloroethylene	9.43		"	10.0	94.3	70-130			1.99	30	
cis-1,3-Dichloropropylene	9.16		"	10.0	91.6	70-130			0.109	30	
Dibromochloromethane	9.32		"	10.0	93.2	70-130			2.17	30	
Dibromomethane	9.04		"	10.0	90.4	70-130			1.65	30	
Dichlorodifluoromethane	4.89		"	10.0	48.9	70-130	Low Bias		8.61	30	
Ethyl Benzene	9.26		"	10.0	92.6	70-130			6.28	30	
Hexachlorobutadiene	9.67		"	10.0	96.7	70-130			6.31	30	
Isopropylbenzene	9.48		"	10.0	94.8	70-130			8.58	30	
Methyl Methacrylate	9.06		"	10.0	90.6	70-130			5.91	30	
Methyl tert-butyl ether (MTBE)	9.37		"	10.0	93.7	70-130			6.84	30	
Methylene chloride	8.67		"	10.0	86.7	70-130			1.83	30	
Naphthalene	9.57		"	10.0	95.7	70-130			5.70	30	
n-Butylbenzene	9.33		"	10.0	93.3	70-130			8.62	30	
n-Propylbenzene	9.37		"	10.0	93.7	70-130			9.75	30	
o-Xylene	9.41		"	10.0	94.1	70-130			4.47	30	
p- & m- Xylenes	18.6		"	20.0	93.0	70-130			4.98	30	
p-Isopropyltoluene	9.25		"	10.0	92.5	70-130			7.89	30	
sec-Butylbenzene	9.36		"	10.0	93.6	70-130			8.98	30	
Styrene	9.35		"	10.0	93.5	70-130			4.09	30	
tert-Butylbenzene	9.02		"	10.0	90.2	70-130			7.98	30	
Tetrachloroethylene	5.65		"	10.0	56.5	70-130	Low Bias		4.16	30	
Tetrahydrofuran	10.0		"	10.0	100	70-130			3.56	30	
Toluene	9.29		"	10.0	92.9	70-130			5.65	30	
trans-1,2-Dichloroethylene	9.42		"	10.0	94.2	70-130			4.06	30	
trans-1,3-Dichloropropylene	9.32		"	10.0	93.2	70-130			2.61	30	
trans-1,4-dichloro-2-butene	9.63		"	10.0	96.3	70-130			24.2	30	
Trichloroethylene	8.85		"	10.0	88.5	70-130			6.56	30	
Trichlorofluoromethane	9.37		"	10.0	93.7	70-130			6.10	30	
Vinyl Chloride	8.34		"	10.0	83.4	70-130			6.72	30	
Surrogate: SURL: 1,2-Dichloroethane-d4	9.94		"	10.0	99.4	70-130					
Surrogate: SURL: Toluene-d8	9.88		"	10.0	98.8	70-130					
Surrogate: SURL: p-Bromofluorobenzene	9.83		"	10.0	98.3	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30398 - EPA 5030B</b>											
<b>LCS Dup (BD30398-BSD2)</b>											
Prepared & Analyzed: 04/06/2023											
1,1,1,2-Tetrachloroethane	9.29		ug/L	10.0	92.9	70-130			1.50	30	
1,1,1-Trichloroethane	9.42		"	10.0	94.2	70-130			3.03	30	
1,1,2,2-Tetrachloroethane	9.15		"	10.0	91.5	70-130			3.96	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.59		"	10.0	95.9	70-130			3.38	30	
1,1,2-Trichloroethane	8.88		"	10.0	88.8	70-130			2.34	30	
1,1-Dichloroethane	8.93		"	10.0	89.3	70-130			3.84	30	
1,1-Dichloroethylene	8.88		"	10.0	88.8	70-130			6.54	30	
1,1-Dichloropropylene	8.75		"	10.0	87.5	70-130			5.77	30	
1,2,3-Trichlorobenzene	9.49		"	10.0	94.9	70-130			2.19	30	
1,2,3-Trichloropropane	8.69		"	10.0	86.9	70-130			6.03	30	
1,2,4-Trichlorobenzene	9.69		"	10.0	96.9	70-130			0.414	30	
1,2,4-Trimethylbenzene	9.39		"	10.0	93.9	70-130			1.37	30	
1,2-Dibromo-3-chloropropane	9.53		"	10.0	95.3	70-130			10.7	30	
1,2-Dibromoethane	9.42		"	10.0	94.2	70-130			1.27	30	
1,2-Dichlorobenzene	9.28		"	10.0	92.8	70-130			0.537	30	
1,2-Dichloroethane	9.00		"	10.0	90.0	70-130			2.63	30	
1,2-Dichloropropane	9.49		"	10.0	94.9	70-130			0.00	30	
1,3,5-Trimethylbenzene	9.36		"	10.0	93.6	70-130			1.06	30	
1,3-Dichlorobenzene	9.33		"	10.0	93.3	70-130			1.81	30	
1,3-Dichloropropane	8.97		"	10.0	89.7	70-130			1.11	30	
1,4-Dichlorobenzene	9.12		"	10.0	91.2	70-130			2.70	30	
2,2-Dichloropropane	9.75		"	10.0	97.5	70-130			5.49	30	
2-Butanone	9.22		"	10.0	92.2	70-130			8.52	30	
2-Chlorotoluene	9.39		"	10.0	93.9	70-130			1.58	30	
2-Hexanone	8.11		"	10.0	81.1	70-130			0.859	30	
4-Chlorotoluene	9.46		"	10.0	94.6	70-130			1.78	30	
4-Methyl-2-pentanone	6.32		"	10.0	63.2	70-130	Low Bias		7.90	30	
Acetone	5.65		"	10.0	56.5	70-130	Low Bias		0.00	30	
Acrylonitrile	9.75		"	10.0	97.5	70-130			3.82	30	
Benzene	9.49		"	10.0	94.9	70-130			3.32	30	
Bromobenzene	9.17		"	10.0	91.7	70-130			0.328	30	
Bromochloromethane	9.20		"	10.0	92.0	70-130			4.88	30	
Bromodichloromethane	9.15		"	10.0	91.5	70-130			0.327	30	
Bromoform	9.34		"	10.0	93.4	70-130			0.959	30	
Bromomethane	6.30		"	10.0	63.0	70-130	Low Bias		12.5	30	
Carbon disulfide	9.15		"	10.0	91.5	70-130			4.80	30	
Carbon tetrachloride	9.27		"	10.0	92.7	70-130			6.47	30	
Chlorobenzene	9.81		"	10.0	98.1	70-130			2.71	30	
Chloroethane	9.48		"	10.0	94.8	70-130			5.64	30	
Chloroform	9.27		"	10.0	92.7	70-130			4.33	30	
Chloromethane	6.61		"	10.0	66.1	70-130	Low Bias		5.59	30	
cis-1,2-Dichloroethylene	9.21		"	10.0	92.1	70-130			3.31	30	
cis-1,3-Dichloropropylene	8.96		"	10.0	89.6	70-130			3.19	30	
Dibromochloromethane	9.28		"	10.0	92.8	70-130			2.45	30	
Dibromomethane	8.93		"	10.0	89.3	70-130			3.20	30	
Dichlorodifluoromethane	4.78		"	10.0	47.8	70-130	Low Bias		6.87	30	
Ethyl Benzene	9.27		"	10.0	92.7	70-130			3.50	30	
Hexachlorobutadiene	9.96		"	10.0	99.6	70-130			1.79	30	
Isopropylbenzene	9.58		"	10.0	95.8	70-130			1.14	30	
Methyl Methacrylate	8.68		"	10.0	86.8	70-130			3.51	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD30398 - EPA 5030B

LCS Dup (BD30398-BSD2)	Prepared & Analyzed: 04/06/2023										
Methyl tert-butyl ether (MTBE)	8.95	ug/L	10.0		89.5	70-130			2.65	30	
Methylene chloride	8.66	"	10.0		86.6	70-130			3.07	30	
Naphthalene	9.33	"	10.0		93.3	70-130			1.49	30	
n-Butylbenzene	9.39	"	10.0		93.9	70-130			3.04	30	
n-Propylbenzene	9.52	"	10.0		95.2	70-130			2.08	30	
o-Xylene	9.33	"	10.0		93.3	70-130			3.16	30	
p- & m- Xylenes	18.5	"	20.0		92.6	70-130			3.50	30	
p-Isopropyltoluene	9.33	"	10.0		93.3	70-130			1.59	30	
sec-Butylbenzene	9.56	"	10.0		95.6	70-130			1.56	30	
Styrene	9.40	"	10.0		94.0	70-130			1.79	30	
tert-Butylbenzene	9.00	"	10.0		90.0	70-130			3.39	30	
Tetrachloroethylene	5.53	"	10.0		55.3	70-130	Low Bias		4.07	30	
Tetrahydrofuran	5.22	"	10.0		52.2	70-130	Low Bias		58.1	30	Non-dir.
Toluene	9.31	"	10.0		93.1	70-130			2.65	30	
trans-1,2-Dichloroethylene	9.36	"	10.0		93.6	70-130			2.74	30	
trans-1,3-Dichloropropylene	9.03	"	10.0		90.3	70-130			1.32	30	
trans-1,4-dichloro-2-butene	7.97	"	10.0		79.7	70-130			18.3	30	
Trichloroethylene	9.19	"	10.0		91.9	70-130			2.90	30	
Trichlorofluoromethane	8.98	"	10.0		89.8	70-130			6.57	30	
Vinyl Chloride	8.32	"	10.0		83.2	70-130			2.84	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	9.51	"	10.0		95.1	70-130					
Surrogate: SURR: Toluene-d8	9.95	"	10.0		99.5	70-130					
Surrogate: SURR: p-Bromofluorobenzene	9.95	"	10.0		99.5	70-130					

#### Batch BD30608 - EPA 5030B

LCS (BD30608-BS1)	Prepared & Analyzed: 04/10/2023						
1,1,1,2-Tetrachloroethane	10.1	ug/L	10.0		101	70-130	
1,1,1-Trichloroethane	10.4	"	10.0		104	70-130	
1,1,2,2-Tetrachloroethane	10.3	"	10.0		103	70-130	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.61	"	10.0		96.1	70-130	
1,1,2-Trichloroethane	9.47	"	10.0		94.7	70-130	
1,1-Dichloroethane	9.53	"	10.0		95.3	70-130	
1,1-Dichloroethylene	8.36	"	10.0		83.6	70-130	
1,1-Dichloropropylene	9.65	"	10.0		96.5	70-130	
1,2,3-Trichlorobenzene	8.10	"	10.0		81.0	70-130	
1,2,3-Trichloropropane	9.21	"	10.0		92.1	70-130	
1,2,4-Trichlorobenzene	8.11	"	10.0		81.1	70-130	
1,2,4-Trimethylbenzene	10.4	"	10.0		104	70-130	
1,2-Dibromo-3-chloropropane	8.26	"	10.0		82.6	70-130	
1,2-Dibromoethane	9.83	"	10.0		98.3	70-130	
1,2-Dichlorobenzene	10.1	"	10.0		101	70-130	
1,2-Dichloroethane	9.85	"	10.0		98.5	70-130	
1,2-Dichloropropane	9.49	"	10.0		94.9	70-130	
1,3,5-Trimethylbenzene	10.2	"	10.0		102	70-130	
1,3-Dichlorobenzene	10.3	"	10.0		103	70-130	
1,3-Dichloropropane	9.50	"	10.0		95.0	70-130	
1,4-Dichlorobenzene	10.2	"	10.0		102	70-130	
2,2-Dichloropropane	10.3	"	10.0		103	70-130	
2-Butanone	8.03	"	10.0		80.3	70-130	
2-Chlorotoluene	9.92	"	10.0		99.2	70-130	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30608 - EPA 5030B</b>											
<b>LCS (BD30608-BS1)</b>											
Prepared & Analyzed: 04/10/2023											
2-Hexanone	8.50		ug/L	10.0	85.0	70-130					
4-Chlorotoluene	9.96		"	10.0	99.6	70-130					
4-Methyl-2-pentanone	8.93		"	10.0	89.3	70-130					
Acetone	5.57		"	10.0	55.7	70-130	Low Bias				
Acrylonitrile	9.75		"	10.0	97.5	70-130					
Benzene	10.2		"	10.0	102	70-130					
Bromobenzene	9.28		"	10.0	92.8	70-130					
Bromochloromethane	9.14		"	10.0	91.4	70-130					
Bromodichloromethane	9.46		"	10.0	94.6	70-130					
Bromoform	10.7		"	10.0	107	70-130					
Bromomethane	8.42		"	10.0	84.2	70-130					
Carbon disulfide	9.34		"	10.0	93.4	70-130					
Carbon tetrachloride	10.4		"	10.0	104	70-130					
Chlorobenzene	10.7		"	10.0	107	70-130					
Chloroethane	5.76		"	10.0	57.6	70-130	Low Bias				
Chloroform	10.1		"	10.0	101	70-130					
Chloromethane	8.76		"	10.0	87.6	70-130					
cis-1,2-Dichloroethylene	9.81		"	10.0	98.1	70-130					
cis-1,3-Dichloropropylene	9.47		"	10.0	94.7	70-130					
Dibromochloromethane	9.80		"	10.0	98.0	70-130					
Dibromomethane	9.16		"	10.0	91.6	70-130					
Dichlorodifluoromethane	9.35		"	10.0	93.5	70-130					
Ethyl Benzene	10.4		"	10.0	104	70-130					
Hexachlorobutadiene	8.23		"	10.0	82.3	70-130					
Isopropylbenzene	9.95		"	10.0	99.5	70-130					
Methyl Methacrylate	9.02		"	10.0	90.2	70-130					
Methyl tert-butyl ether (MTBE)	9.66		"	10.0	96.6	70-130					
Methylene chloride	8.83		"	10.0	88.3	70-130					
Naphthalene	8.04		"	10.0	80.4	70-130					
n-Butylbenzene	11.5		"	10.0	115	70-130					
n-Propylbenzene	10.1		"	10.0	101	70-130					
o-Xylene	10.6		"	10.0	106	70-130					
p- & m- Xylenes	21.2		"	20.0	106	70-130					
p-Isopropyltoluene	11.1		"	10.0	111	70-130					
sec-Butylbenzene	11.1		"	10.0	111	70-130					
Styrene	10.6		"	10.0	106	70-130					
tert-Butylbenzene	10.7		"	10.0	107	70-130					
Tetrachloroethylene	5.67		"	10.0	56.7	70-130	Low Bias				
Tetrahydrofuran	8.95		"	10.0	89.5	70-130					
Toluene	9.94		"	10.0	99.4	70-130					
trans-1,2-Dichloroethylene	9.62		"	10.0	96.2	70-130					
trans-1,3-Dichloropropylene	9.35		"	10.0	93.5	70-130					
trans-1,4-dichloro-2-butene	9.98		"	10.0	99.8	70-130					
Trichloroethylene	8.93		"	10.0	89.3	70-130					
Trichlorofluoromethane	6.34		"	10.0	63.4	70-130	Low Bias				
Vinyl Chloride	9.84		"	10.0	98.4	70-130					
<i>Surrogate: SURL: 1,2-Dichloroethane-d4</i>	10.0		"	10.0	100	70-130					
<i>Surrogate: SURL: Toluene-d8</i>	9.70		"	10.0	97.0	70-130					
<i>Surrogate: SURL: p-Bromofluorobenzene</i>	9.34		"	10.0	93.4	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD30608 - EPA 5030B

LCS Dup (BD30608-BSD1)	Prepared & Analyzed: 04/10/2023										
1,1,1,2-Tetrachloroethane	9.63		ug/L	10.0	96.3	70-130			4.76	30	
1,1,1-Trichloroethane	9.34		"	10.0	93.4	70-130			10.4	30	
1,1,2,2-Tetrachloroethane	10.0		"	10.0	100	70-130			3.04	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.55		"	10.0	85.5	70-130			11.7	30	
1,1,2-Trichloroethane	9.50		"	10.0	95.0	70-130			0.316	30	
1,1-Dichloroethane	8.76		"	10.0	87.6	70-130			8.42	30	
1,1-Dichloroethylene	7.44		"	10.0	74.4	70-130			11.6	30	
1,1-Dichloropropylene	8.66		"	10.0	86.6	70-130			10.8	30	
1,2,3-Trichlorobenzene	8.09		"	10.0	80.9	70-130			0.124	30	
1,2,3-Trichloropropane	9.21		"	10.0	92.1	70-130			0.00	30	
1,2,4-Trichlorobenzene	7.82		"	10.0	78.2	70-130			3.64	30	
1,2,4-Trimethylbenzene	9.52		"	10.0	95.2	70-130			8.74	30	
1,2-Dibromo-3-chloropropane	8.14		"	10.0	81.4	70-130			1.46	30	
1,2-Dibromoethane	9.70		"	10.0	97.0	70-130			1.33	30	
1,2-Dichlorobenzene	9.49		"	10.0	94.9	70-130			6.13	30	
1,2-Dichloroethane	9.51		"	10.0	95.1	70-130			3.51	30	
1,2-Dichloropropane	8.99		"	10.0	89.9	70-130			5.41	30	
1,3,5-Trimethylbenzene	9.22		"	10.0	92.2	70-130			9.90	30	
1,3-Dichlorobenzene	9.55		"	10.0	95.5	70-130			7.27	30	
1,3-Dichloropropane	9.32		"	10.0	93.2	70-130			1.91	30	
1,4-Dichlorobenzene	9.47		"	10.0	94.7	70-130			7.32	30	
2,2-Dichloropropane	9.07		"	10.0	90.7	70-130			12.9	30	
2-Butanone	8.01		"	10.0	80.1	70-130			0.249	30	
2-Chlorotoluene	9.01		"	10.0	90.1	70-130			9.61	30	
2-Hexanone	8.50		"	10.0	85.0	70-130			0.00	30	
4-Chlorotoluene	9.16		"	10.0	91.6	70-130			8.37	30	
4-Methyl-2-pentanone	9.06		"	10.0	90.6	70-130			1.45	30	
Acetone	5.46		"	10.0	54.6	70-130	Low Bias		1.99	30	
Acrylonitrile	9.68		"	10.0	96.8	70-130			0.721	30	
Benzene	9.42		"	10.0	94.2	70-130			8.44	30	
Bromobenzene	8.58		"	10.0	85.8	70-130			7.84	30	
Bromochloromethane	8.46		"	10.0	84.6	70-130			7.73	30	
Bromodichloromethane	8.93		"	10.0	89.3	70-130			5.76	30	
Bromoform	10.6		"	10.0	106	70-130			1.03	30	
Bromomethane	7.68		"	10.0	76.8	70-130			9.19	30	
Carbon disulfide	7.97		"	10.0	79.7	70-130			15.8	30	
Carbon tetrachloride	9.39		"	10.0	93.9	70-130			10.3	30	
Chlorobenzene	10.0		"	10.0	100	70-130			6.27	30	
Chloroethane	5.06		"	10.0	50.6	70-130	Low Bias		12.9	30	
Chloroform	9.31		"	10.0	93.1	70-130			7.84	30	
Chloromethane	7.16		"	10.0	71.6	70-130			20.1	30	
cis-1,2-Dichloroethylene	9.00		"	10.0	90.0	70-130			8.61	30	
cis-1,3-Dichloropropylene	8.94		"	10.0	89.4	70-130			5.76	30	
Dibromochloromethane	9.60		"	10.0	96.0	70-130			2.06	30	
Dibromomethane	8.94		"	10.0	89.4	70-130			2.43	30	
Dichlorodifluoromethane	8.17		"	10.0	81.7	70-130			13.5	30	
Ethyl Benzene	9.61		"	10.0	96.1	70-130			7.51	30	
Hexachlorobutadiene	7.29		"	10.0	72.9	70-130			12.1	30	
Isopropylbenzene	8.96		"	10.0	89.6	70-130			10.5	30	
Methyl Methacrylate	9.12		"	10.0	91.2	70-130			1.10	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
<b>Batch BD30608 - EPA 5030B</b>											
<b>LCS Dup (BD30608-BSD1)</b>											
Prepared & Analyzed: 04/10/2023											
Methyl tert-butyl ether (MTBE)	9.40		ug/L	10.0	94.0	70-130			2.73	30	
Methylene chloride	8.21		"	10.0	82.1	70-130			7.28	30	
Naphthalene	8.05		"	10.0	80.5	70-130			0.124	30	
n-Butylbenzene	10.6		"	10.0	106	70-130			7.89	30	
n-Propylbenzene	9.17		"	10.0	91.7	70-130			9.95	30	
o-Xylene	9.88		"	10.0	98.8	70-130			6.56	30	
p- & m- Xylenes	19.6		"	20.0	98.0	70-130			7.94	30	
p-Isopropyltoluene	10.1		"	10.0	101	70-130			8.96	30	
sec-Butylbenzene	10.1		"	10.0	101	70-130			9.69	30	
Styrene	9.92		"	10.0	99.2	70-130			6.25	30	
tert-Butylbenzene	9.75		"	10.0	97.5	70-130			9.38	30	
Tetrachloroethylene	5.17		"	10.0	51.7	70-130	Low Bias		9.23	30	
Tetrahydrofuran	8.98		"	10.0	89.8	70-130			0.335	30	
Toluene	9.17		"	10.0	91.7	70-130			8.06	30	
trans-1,2-Dichloroethylene	8.67		"	10.0	86.7	70-130			10.4	30	
trans-1,3-Dichloropropylene	9.10		"	10.0	91.0	70-130			2.71	30	
trans-1,4-dichloro-2-butene	9.35		"	10.0	93.5	70-130			6.52	30	
Trichloroethylene	8.23		"	10.0	82.3	70-130			8.16	30	
Trichlorofluoromethane	5.41		"	10.0	54.1	70-130	Low Bias		15.8	30	
Vinyl Chloride	8.62		"	10.0	86.2	70-130			13.2	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	10.1		"	10.0	101	70-130					
<i>Surrogate: SURR: Toluene-d8</i>	9.62		"	10.0	96.2	70-130					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	9.08		"	10.0	90.8	70-130					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BD30286 - EPA 3510C**

**Blank (BD30286-BLK1)**

Prepared: 04/05/2023 Analyzed: 04/06/2023

2-Methylnaphthalene	ND	5.00	ug/L								
Surrogate: Surr: Nitrobenzene-d5	20.5		"	25.0		82.1	30-130				
Surrogate: Surr: 2-Fluorobiphenyl	18.2		"	25.0		72.7	30-130				
Surrogate: Surr: Terphenyl-d14	22.6		"	25.0		90.3	30-130				

**Blank (BD30286-BLK2)**

Prepared: 04/05/2023 Analyzed: 04/06/2023

Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

**LCS (BD30286-BS1)**

Prepared: 04/05/2023 Analyzed: 04/06/2023

2-Methylnaphthalene	16.5	5.00	ug/L	25.0		66.0	40-140				
Surrogate: Surr: Nitrobenzene-d5	18.4		"	25.0		73.8	30-130				
Surrogate: Surr: 2-Fluorobiphenyl	16.0		"	25.0		63.9	30-130				
Surrogate: Surr: Terphenyl-d14	18.6		"	25.0		74.6	30-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	RPD Flag
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**Batch BD30286 - EPA 3510C**

**LCS Dup (BD30286-BSD1)**

	Prepared: 04/05/2023 Analyzed: 04/06/2023								
2-Methylnaphthalene	20.4	5.00	ug/L	25.0	81.6	40-140	21.2	20	Non-dir.
<i>Surrogate: SURR: Nitrobenzene-d5</i>	23.5		"	25.0	94.0	30-130			
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	20.8		"	25.0	83.3	30-130			
<i>Surrogate: SURR: Terphenyl-d14</i>	23.5		"	25.0	94.1	30-130			



Gas Chromatography/Flame Ionization Detector - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BD30283 - EPA SW846-3510C Low Level**

**Blank (BD30283-BLK1)**

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	0.150	mg/L						Prepared: 04/05/2023	Analyzed: 04/07/2023
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Surrogate: *I-Chlorooctadecane*

0.0802 " 0.100 80.2 30-140

**LCS (BD30283-BS1)**

ETPH (Extractable Total Petroleum Hydrocarbons)	0.896	0.150	mg/L	0.750	119	60-120			Prepared: 04/05/2023	Analyzed: 04/07/2023
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Surrogate: *I-Chlorooctadecane*

0.110 " 0.100 110 30-140

**LCS Dup (BD30283-BSD1)**

ETPH (Extractable Total Petroleum Hydrocarbons)	0.870	0.150	mg/L	0.750	116	60-120			2.96	30
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Surrogate: *I-Chlorooctadecane*

0.0717 " 0.100 71.7 30-140



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23C1829-01	MW-12	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23C1829-02	MW-13	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- QR-04 The RPD exceeded control limits for the LCS/LCSD QC.
- 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.
- ICVE The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
- CCVE 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).
- CAL-E The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%)

### 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.

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## **Field Chain-of-Custody Record**

York Analytical Laboratories, Inc. (YORK's) Standard Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization for YORK to proceed with the analyses requested below.  
Your signature binds you to YORK's Standard Terms & Conditions.

**YORK Project No.**

23C 1829

120 Research Drive Stratford, CT 06615 - 132-02 89th Ave Queens, NY 11418 - 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

120 Research Drive Stratford, CT 06615 - 132-02 89th Ave Queens, NY 11418 - 56 Church Hill Rd. #2 Newtown, CT 06470 clientservices@yorklab.com www.yorklab.com 800-306-YORK

Your signature binds you to YORK's Standard Terms & Conditions

Page 1 of 1

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: <b>Turner Environmental</b>	Company: <b>SAME</b>	Company: <b>SAME</b>		TE 23-007	RUSH - Next Day
Address: <b>P.O. Box 501 East Lyme Ct</b>	Address:	Address:		<b>YOUR Project Name</b>	RUSH - Two Day
Phone.: <b>860 705-8704</b>	Phone.: <b></b>	Phone.: <b></b>		<b>Regan 18 off Spill</b>	RUSH - Three Day
Contact: <b>D. Turner</b>	Contact: <b></b>	Contact: <b></b>			RUSH - Four Day
E-mail: <b>Turner-enviro@hot</b>	E-mail: <b></b>	E-mail: <b></b>		<b>YOUR PO#:</b> <b>Regan 18</b>	Standard (5-7 Day) <b>(7-10 for PFAS)</b>

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.

DAVID T. TURNER

**Samples Collected by:** (print AND sign your name)

Matrix Codes	Samples From	Report / EDD Type (circle selections)		
S - soil / solid	New York	Summary Report	<input checked="" type="radio"/> CT RCP	EQuIS (Standard)
GW - groundwater	New Jersey	QA Report	<input type="radio"/> CT RCP DQA/DUE	NYSDEC EQuIS
DW - drinking water	Connecticut	Standard Excel EDD	<input checked="" type="radio"/> NJDEP Reduced	NJDKQP
WW - wastewater	Pennsylvania	NY ASP B Package	<input type="radio"/> Deliverables	NJDEP SRP HazSite
O - Oil	Other:	Other:		

<b>YORK Reg. Comp</b>
Compared to the following
Regulation(s): (please fill in)
GWRP
SWRP
RVC

**Comments:**

Samples iced/chilled at time of lab pickup? circle Yes or No

**Preservation:** (check all that apply)

### **Special Instruction**

### Field Filtered

Lab to Filter

1. Samples Relinquished by / Company <i>Am 2m Turner</i>	Date/Time <i>3/31/23 11:00</i>	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by <i>TC Yahr</i>	Date/Time <i>3/31/23 11:00</i> Temperature <i>5.7 Degrees C</i>



# Technical Report

prepared for:

**Turner Environmental, LLC**  
68 Ridge Hill Rd.  
Oakdale CT, 06357  
**Attention: David Turner**

Report Date: 04/06/2023

**Client Project ID: TE 23-007 Region 18 Oil Spill**  
York Project (SDG) No.: 23C1830

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

Report Date: 04/06/2023  
Client Project ID: TE 23-007 Region 18 Oil Spill  
York Project (SDG) No.: 23C1830

**Turner Environmental, LLC**  
68 Ridge Hill Rd.  
Oakdale CT, 06357  
Attention: David Turner

---

## 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 March 31, 2023 and listed below. The project was identified as your project: **TE 23-007 Region 18 Oil Spill**.

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>
23C1830-01	MW-14	Water	03/30/2023	03/31/2023

## General Notes for York Project (SDG) No.: 23C1830

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: *Cassie L. Mosher*

Date: 04/06/2023

Cassie L. Mosher  
Laboratory Manager





## Sample Information

**Client Sample ID:** MW-14

**York Sample ID:** 23C1830-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
23C1830	TE 23-007 Region 18 Oil Spill	Water	March 30, 2023 7:30 pm	03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
563-58-6	1,1-Dichloropropylene	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	04/05/2023 12:30	04/05/2023 16:30	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>408</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>113</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
142-28-9	1,3-Dichloropropane	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
594-20-7	2,2-Dichloropropane	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA



## Sample Information

Client Sample ID: MW-14

York Sample ID: 23C1830-01

York Project (SDG) No.

23C1830

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 7:30 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-93-3	2-Butanone	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
95-49-8	2-Chlorotoluene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
591-78-6	2-Hexanone	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
106-43-4	4-Chlorotoluene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
67-64-1	Acetone	ND		ug/L	10.0	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
107-13-1	Acrylonitrile	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
71-43-2	Benzene	35.4		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
108-86-1	Bromobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
74-97-5	Bromochloromethane	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
75-27-4	Bromodichloromethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-25-2	Bromoform	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
74-83-9	Bromomethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-15-0	Carbon disulfide	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
108-90-7	Chlorobenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-00-3	Chloroethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
67-66-3	Chloroform	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
74-87-3	Chloromethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
124-48-1	Dibromochloromethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
74-95-3	Dibromomethane	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA



## Sample Information

Client Sample ID: MW-14

York Sample ID: 23C1830-01

York Project (SDG) No.

23C1830

Client Project ID

TE 23-007 Region 18 Oil Spill

Matrix

Water

Collection Date/Time

March 30, 2023 7:30 pm

Date Received

03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
100-41-4	<b>Ethyl Benzene</b>	<b>148</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
98-82-8	<b>Isopropylbenzene</b>	<b>26.3</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
80-62-6	Methyl Methacrylate	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	04/05/2023 12:30	04/05/2023 16:30	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-09-2	Methylene chloride	ND		ug/L	10.0	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
91-20-3	<b>Naphthalene</b>	<b>33.4</b>		ug/L	10.0	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
104-51-8	n-Butylbenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
103-65-1	<b>n-Propylbenzene</b>	<b>49.5</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
95-47-6	<b>o-Xylene</b>	<b>346</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>494</b>		ug/L	5.00	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
99-87-6	<b>p-Isopropyltoluene</b>	<b>5.60</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
135-98-8	<b>sec-Butylbenzene</b>	<b>9.00</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
100-42-5	Styrene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
127-18-4	Tetrachloroethylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
109-99-9	Tetrahydrofuran	ND		ug/L	20.0	5	EPA 8260C Certifications:	04/05/2023 12:30	04/05/2023 16:30	SMA
108-88-3	<b>Toluene</b>	<b>288</b>		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	04/05/2023 12:30	04/05/2023 16:30	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	2.50	5	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/05/2023 12:30	04/05/2023 16:30	SMA
79-01-6	Trichloroethylene	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA



## Sample Information

Client Sample ID: MW-14

York Sample ID: 23C1830-01

York Project (SDG) No.  
23C1830

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Water

Collection Date/Time  
March 30, 2023 7:30 pm

Date Received  
03/31/2023

### VOA, 8260 RCP LOW MASTER

Sample Prepared by Method: EPA 5030B

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
75-01-4	Vinyl Chloride	ND		ug/L	2.50	5	EPA 8260C Certifications: CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	04/05/2023 12:30	04/05/2023 16:30	SMA
<b>Surrogate Recoveries</b>										
Surrogate: Surr: 1,2-Dichloroethane-d4										
17060-07-0	Surrogate: Surr: 1,2-Dichloroethane-d4	98.1 %			70-130					
2037-26-5	Surrogate: Surr: Toluene-d8	94.6 %			70-130					
460-00-4	Surrogate: Surr: p-Bromofluorobenzene	129 %			70-130					

### SVOA, 8270 LOW RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-57-6	2-Methylnaphthalene	16.7		ug/L	5.13	1	EPA 8270D Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 11:37	KH
<b>Surrogate Recoveries</b>										
Surrogate: Surr: Nitrobenzene-d5										
4165-60-0	Surrogate: Surr: Nitrobenzene-d5	56.5 %			30-130					
321-60-8	Surrogate: Surr: 2-Fluorobiphenyl	48.5 %			30-130					
1718-51-0	Surrogate: Surr: Terphenyl-d14	27.4 %	S-08		30-130					

### SVOA, 8270 SIM RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	0.523		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
208-96-8	Acenaphthylene	0.277		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
120-12-7	Anthracene	0.0718		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
218-01-9	Chrysene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH



## Sample Information

Client Sample ID: MW-14

York Sample ID: 23C1830-01

York Project (SDG) No.  
23C1830

Client Project ID  
TE 23-007 Region 18 Oil Spill

Matrix  
Water

Collection Date/Time  
March 30, 2023 7:30 pm

Date Received  
03/31/2023

### SVOA, 8270 SIM RCP MASTER

Sample Prepared by Method: EPA 3510C

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenz(a,h)anthracene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
206-44-0	Fluoranthene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
86-73-7	<b>Fluorene</b>	<b>0.974</b>		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
91-20-3	<b>Naphthalene</b>	<b>16.8</b>	QL-02	ug/L	0.513	10	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/05/2023 00:44	KH
85-01-8	<b>Phenanthrene</b>	<b>0.379</b>		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH
129-00-0	Pyrene	ND		ug/L	0.0513	1	EPA 8270D SIM Certifications: CTDOH-PH-0723,NELAC-NY10854,NJDEP	04/03/2023 07:53	04/04/2023 00:48	KH

### Extractable Total Petroleum Hydrocarbons (ETPH)

Sample Prepared by Method: EPA SW846-3510C Low Level

#### Log-in Notes:

#### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
CT ETPH	<b>ETPH (Extractable Total Petroleum Hydrocarbons)</b>	<b>3.73</b>		mg/L	0.150	1	CT DEP ETPH Certifications: CTDOH-PH-0723	04/03/2023 08:06	04/04/2023 13:03	GXB
<b>Surrogate Recoveries</b>										
Surrogate: <i>I</i> -Chlorooctadecane      Result: 142 %      Acceptance Range: 30-140										



## Analytical Batch Summary

**Batch ID:** BD30024

**Preparation Method:** EPA 3510C

**Prepared By:** agg

YORK Sample ID	Client Sample ID	Preparation Date
23C1830-01	MW-14	04/03/23
23C1830-01RE1	MW-14	04/03/23
BD30024-BLK1	Blank	04/03/23
BD30024-BLK2	Blank	04/03/23
BD30024-BS1	LCS	04/03/23
BD30024-BS2	LCS	04/03/23
BD30024-BSD1	LCS Dup	04/03/23

**Batch ID:** BD30031

**Preparation Method:** EPA SW846-3510C Low Level

**Prepared By:** RST

YORK Sample ID	Client Sample ID	Preparation Date
23C1830-01	MW-14	04/03/23
BD30031-BLK1	Blank	04/03/23
BD30031-BS1	LCS	04/03/23
BD30031-BSD1	LCS Dup	04/03/23

**Batch ID:** BD30316

**Preparation Method:** EPA 5030B

**Prepared By:** SMA

YORK Sample ID	Client Sample ID	Preparation Date
23C1830-01	MW-14	04/05/23
BD30316-BLK1	Blank	04/05/23
BD30316-BS1	LCS	04/05/23
BD30316-BSD1	LCS Dup	04/05/23



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD30316 - EPA 5030B

##### Blank (BD30316-BLK1)

Prepared & Analyzed: 04/05/2023

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	"



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30316 - EPA 5030B</b>											
<b>Blank (BD30316-BLK1)</b>											
Methyl Methacrylate	ND	0.500	ug/L								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
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	9.88		"	10.0		98.8	70-130				
Surrogate: Surr: Toluene-d8	9.58		"	10.0		95.8	70-130				
Surrogate: Surr: p-Bromofluorobenzene	10.0		"	10.0		100	70-130				
<b>LCS (BD30316-BS1)</b>											
			ug/L								
1,1,1,2-Tetrachloroethane	9.39		ug/L	10.0		93.9	70-130				
1,1,1-Trichloroethane	9.23		"	10.0		92.3	70-130				
1,1,2,2-Tetrachloroethane	10.5		"	10.0		105	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.44		"	10.0		94.4	70-130				
1,1,2-Trichloroethane	9.51		"	10.0		95.1	70-130				
1,1-Dichloroethane	8.87		"	10.0		88.7	70-130				
1,1-Dichloroethylene	9.09		"	10.0		90.9	70-130				
1,1-Dichloropropylene	8.82		"	10.0		88.2	70-130				
1,2,3-Trichlorobenzene	7.50		"	10.0		75.0	70-130				
1,2,3-Trichloropropane	9.71		"	10.0		97.1	70-130				
1,2,4-Trichlorobenzene	7.73		"	10.0		77.3	70-130				
1,2,4-Trimethylbenzene	9.15		"	10.0		91.5	70-130				
1,2-Dibromo-3-chloropropane	7.05		"	10.0		70.5	70-130				
1,2-Dibromoethane	9.72		"	10.0		97.2	70-130				
1,2-Dichlorobenzene	9.27		"	10.0		92.7	70-130				
1,2-Dichloroethane	9.31		"	10.0		93.1	70-130				
1,2-Dichloropropane	9.27		"	10.0		92.7	70-130				
1,3,5-Trimethylbenzene	8.90		"	10.0		89.0	70-130				
1,3-Dichlorobenzene	8.86		"	10.0		88.6	70-130				
1,3-Dichloropropane	9.74		"	10.0		97.4	70-130				
1,4-Dichlorobenzene	8.91		"	10.0		89.1	70-130				
2,2-Dichloropropane	9.46		"	10.0		94.6	70-130				
2-Butanone	7.55		"	10.0		75.5	70-130				
2-Chlorotoluene	9.16		"	10.0		91.6	70-130				



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30316 - EPA 5030B</b>											
<b>LCS (BD30316-BS1)</b>											
Prepared & Analyzed: 04/05/2023											
2-Hexanone	9.56		ug/L	10.0	95.6	70-130					
4-Chlorotoluene	9.27		"	10.0	92.7	70-130					
4-Methyl-2-pentanone	11.2		"	10.0	112	70-130					
Acetone	6.08		"	10.0	60.8	70-130	Low Bias				
Acrylonitrile	10.0		"	10.0	100	70-130					
Benzene	9.35		"	10.0	93.5	70-130					
Bromobenzene	9.31		"	10.0	93.1	70-130					
Bromochloromethane	9.47		"	10.0	94.7	70-130					
Bromodichloromethane	8.92		"	10.0	89.2	70-130					
Bromoform	9.81		"	10.0	98.1	70-130					
Bromomethane	5.33		"	10.0	53.3	70-130	Low Bias				
Carbon disulfide	9.51		"	10.0	95.1	70-130					
Carbon tetrachloride	9.41		"	10.0	94.1	70-130					
Chlorobenzene	9.83		"	10.0	98.3	70-130					
Chloroethane	9.43		"	10.0	94.3	70-130					
Chloroform	9.01		"	10.0	90.1	70-130					
Chloromethane	9.75		"	10.0	97.5	70-130					
cis-1,2-Dichloroethylene	9.21		"	10.0	92.1	70-130					
cis-1,3-Dichloropropylene	10.5		"	10.0	105	70-130					
Dibromochloromethane	9.42		"	10.0	94.2	70-130					
Dibromomethane	9.04		"	10.0	90.4	70-130					
Dichlorodifluoromethane	6.14		"	10.0	61.4	70-130	Low Bias				
Ethyl Benzene	9.56		"	10.0	95.6	70-130					
Hexachlorobutadiene	7.29		"	10.0	72.9	70-130					
Isopropylbenzene	9.43		"	10.0	94.3	70-130					
Methyl Methacrylate	10.9		"	10.0	109	70-130					
Methyl tert-butyl ether (MTBE)	9.64		"	10.0	96.4	70-130					
Methylene chloride	9.73		"	10.0	97.3	70-130					
Naphthalene	7.00		"	10.0	70.0	70-130					
n-Butylbenzene	9.46		"	10.0	94.6	70-130					
n-Propylbenzene	9.18		"	10.0	91.8	70-130					
o-Xylene	10.2		"	10.0	102	70-130					
p- & m- Xylenes	19.4		"	20.0	96.8	70-130					
p-Isopropyltoluene	7.23		"	10.0	72.3	70-130					
sec-Butylbenzene	9.00		"	10.0	90.0	70-130					
Styrene	10.2		"	10.0	102	70-130					
tert-Butylbenzene	9.10		"	10.0	91.0	70-130					
Tetrachloroethylene	4.98		"	10.0	49.8	70-130	Low Bias				
Tetrahydrofuran	8.82		"	10.0	88.2	70-130					
Toluene	9.06		"	10.0	90.6	70-130					
trans-1,2-Dichloroethylene	9.23		"	10.0	92.3	70-130					
trans-1,3-Dichloropropylene	9.70		"	10.0	97.0	70-130					
trans-1,4-dichloro-2-butene	9.12		"	10.0	91.2	70-130					
Trichloroethylene	8.35		"	10.0	83.5	70-130					
Trichlorofluoromethane	8.95		"	10.0	89.5	70-130					
Vinyl Chloride	10.7		"	10.0	107	70-130					
<i>Surrogate: SURL: 1,2-Dichloroethane-d4</i>	9.73		"	10.0	97.3	70-130					
<i>Surrogate: SURL: Toluene-d8</i>	9.52		"	10.0	95.2	70-130					
<i>Surrogate: SURL: p-Bromofluorobenzene</i>	9.89		"	10.0	98.9	70-130					



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BD30316 - EPA 5030B</b>											
<b>LCS Dup (BD30316-BSD1)</b>											
Prepared & Analyzed: 04/05/2023											
1,1,1,2-Tetrachloroethane	9.98		ug/L	10.0	99.8	70-130			6.09	30	
1,1,1-Trichloroethane	10.1		"	10.0	101	70-130			8.61	30	
1,1,2,2-Tetrachloroethane	10.8		"	10.0	108	70-130			2.26	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.6		"	10.0	106	70-130			11.4	30	
1,1,2-Trichloroethane	9.83		"	10.0	98.3	70-130			3.31	30	
1,1-Dichloroethane	9.51		"	10.0	95.1	70-130			6.96	30	
1,1-Dichloroethylene	9.93		"	10.0	99.3	70-130			8.83	30	
1,1-Dichloropropylene	9.63		"	10.0	96.3	70-130			8.78	30	
1,2,3-Trichlorobenzene	7.65		"	10.0	76.5	70-130			1.98	30	
1,2,3-Trichloropropane	9.81		"	10.0	98.1	70-130			1.02	30	
1,2,4-Trichlorobenzene	7.94		"	10.0	79.4	70-130			2.68	30	
1,2,4-Trimethylbenzene	9.92		"	10.0	99.2	70-130			8.08	30	
1,2-Dibromo-3-chloropropane	7.16		"	10.0	71.6	70-130			1.55	30	
1,2-Dibromoethane	9.91		"	10.0	99.1	70-130			1.94	30	
1,2-Dichlorobenzene	9.81		"	10.0	98.1	70-130			5.66	30	
1,2-Dichloroethane	9.67		"	10.0	96.7	70-130			3.79	30	
1,2-Dichloropropane	9.68		"	10.0	96.8	70-130			4.33	30	
1,3,5-Trimethylbenzene	9.70		"	10.0	97.0	70-130			8.60	30	
1,3-Dichlorobenzene	9.47		"	10.0	94.7	70-130			6.66	30	
1,3-Dichloropropane	10.0		"	10.0	100	70-130			3.03	30	
1,4-Dichlorobenzene	9.52		"	10.0	95.2	70-130			6.62	30	
2,2-Dichloropropane	10.5		"	10.0	105	70-130			10.3	30	
2-Butanone	7.95		"	10.0	79.5	70-130			5.16	30	
2-Chlorotoluene	9.95		"	10.0	99.5	70-130			8.27	30	
2-Hexanone	9.62		"	10.0	96.2	70-130			0.626	30	
4-Chlorotoluene	10.0		"	10.0	100	70-130			7.58	30	
4-Methyl-2-pentanone	11.2		"	10.0	112	70-130			0.179	30	
Acetone	6.16		"	10.0	61.6	70-130	Low Bias		1.31	30	
Acrylonitrile	9.71		"	10.0	97.1	70-130			3.34	30	
Benzene	10.2		"	10.0	102	70-130			8.21	30	
Bromobenzene	9.81		"	10.0	98.1	70-130			5.23	30	
Bromochloromethane	9.85		"	10.0	98.5	70-130			3.93	30	
Bromodichloromethane	9.28		"	10.0	92.8	70-130			3.96	30	
Bromoform	10.1		"	10.0	101	70-130			2.62	30	
Bromomethane	5.93		"	10.0	59.3	70-130	Low Bias		10.7	30	
Carbon disulfide	10.4		"	10.0	104	70-130			8.84	30	
Carbon tetrachloride	10.3		"	10.0	103	70-130			9.22	30	
Chlorobenzene	10.5		"	10.0	105	70-130			6.69	30	
Chloroethane	10.3		"	10.0	103	70-130			9.01	30	
Chloroform	9.69		"	10.0	96.9	70-130			7.27	30	
Chloromethane	5.63		"	10.0	56.3	70-130	Low Bias		53.6	30	Non-dir.
cis-1,2-Dichloroethylene	9.93		"	10.0	99.3	70-130			7.52	30	
cis-1,3-Dichloropropylene	10.8		"	10.0	108	70-130			3.48	30	
Dibromochloromethane	9.71		"	10.0	97.1	70-130			3.03	30	
Dibromomethane	9.23		"	10.0	92.3	70-130			2.08	30	
Dichlorodifluoromethane	4.50		"	10.0	45.0	70-130	Low Bias		30.8	30	Non-dir.
Ethyl Benzene	10.4		"	10.0	104	70-130			7.94	30	
Hexachlorobutadiene	7.82		"	10.0	78.2	70-130			7.02	30	
Isopropylbenzene	10.3		"	10.0	103	70-130			9.11	30	
Methyl Methacrylate	11.0		"	10.0	110	70-130			1.19	30	



## Volatile Organic Compounds by GC/MS - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD30316 - EPA 5030B

LCS Dup (BD30316-BSD1)	Prepared & Analyzed: 04/05/2023										
Methyl tert-butyl ether (MTBE)	9.95		ug/L	10.0	99.5	70-130			3.16	30	
Methylene chloride	10.0		"	10.0	100	70-130			2.94	30	
Naphthalene	7.07		"	10.0	70.7	70-130			0.995	30	
n-Butylbenzene	10.3		"	10.0	103	70-130			8.89	30	
n-Propylbenzene	10.1		"	10.0	101	70-130			9.44	30	
o-Xylene	10.9		"	10.0	109	70-130			6.56	30	
p- & m- Xylenes	20.9		"	20.0	104	70-130			7.55	30	
p-Isopropyltoluene	7.98		"	10.0	79.8	70-130			9.86	30	
sec-Butylbenzene	9.97		"	10.0	99.7	70-130			10.2	30	
Styrene	10.8		"	10.0	108	70-130			6.19	30	
tert-Butylbenzene	9.98		"	10.0	99.8	70-130			9.22	30	
Tetrachloroethylene	5.42		"	10.0	54.2	70-130	Low Bias		8.46	30	
Tetrahydrofuran	8.75		"	10.0	87.5	70-130			0.797	30	
Toluene	9.65		"	10.0	96.5	70-130			6.31	30	
trans-1,2-Dichloroethylene	10.0		"	10.0	100	70-130			8.31	30	
trans-1,3-Dichloropropylene	9.91		"	10.0	99.1	70-130			2.14	30	
trans-1,4-dichloro-2-butene	9.83		"	10.0	98.3	70-130			7.49	30	
Trichloroethylene	8.94		"	10.0	89.4	70-130			6.82	30	
Trichlorofluoromethane	9.89		"	10.0	98.9	70-130			9.98	30	
Vinyl Chloride	7.24		"	10.0	72.4	70-130			38.3	30	Non-dir.
Surrogate: SURR: 1,2-Dichloroethane-d4	9.74		"	10.0	97.4	70-130					
Surrogate: SURR: Toluene-d8	9.45		"	10.0	94.5	70-130					
Surrogate: SURR: p-Bromofluorobenzene	9.93		"	10.0	99.3	70-130					



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BD30024 - EPA 3510C**

**Blank (BD30024-BLK1)**

Prepared: 04/03/2023 Analyzed: 04/04/2023

2-Methylnaphthalene	ND	5.00	ug/L								
Surrogate: Surr: Nitrobenzene-d5	10.2		"	25.0		40.9	30-130				
Surrogate: Surr: 2-Fluorobiphenyl	8.43		"	25.0		33.7	30-130				
Surrogate: Surr: Terphenyl-d14	12.8		"	25.0		51.3	30-130				

**Blank (BD30024-BLK2)**

Prepared & Analyzed: 04/03/2023

Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Anthracene	ND	0.0500	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Naphthalene	ND	0.0500	"								
Phenanthrene	ND	0.0500	"								
Pyrene	ND	0.0500	"								

**LCS (BD30024-BS1)**

Prepared: 04/03/2023 Analyzed: 04/04/2023

2-Methylnaphthalene	11.7	5.00	ug/L	25.0		46.6	40-140				
Surrogate: Surr: Nitrobenzene-d5	11.1		"	25.0		44.5	30-130				
Surrogate: Surr: 2-Fluorobiphenyl	9.69		"	25.0		38.8	30-130				
Surrogate: Surr: Terphenyl-d14	14.1		"	25.0		56.5	30-130				



## Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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### Batch BD30024 - EPA 3510C

LCS (BD30024-BS2)							Prepared: 04/03/2023 Analyzed: 04/04/2023			
Acenaphthene	0.400	0.0500	ug/L	1.00	40.0	40-140				
Acenaphthylene	0.400	0.0500	"	1.00	40.0	40-140				
Anthracene	0.440	0.0500	"	1.00	44.0	40-140				
Benzo(a)anthracene	0.480	0.0500	"	1.00	48.0	40-140				
Benzo(a)pyrene	0.440	0.0500	"	1.00	44.0	40-140				
Benzo(b)fluoranthene	0.510	0.0500	"	1.00	51.0	40-140				
Benzo(g,h,i)perylene	0.510	0.0500	"	1.00	51.0	40-140				
Benzo(k)fluoranthene	0.520	0.0500	"	1.00	52.0	40-140				
Chrysene	0.490	0.0500	"	1.00	49.0	40-140				
Dibenzo(a,h)anthracene	0.560	0.0500	"	1.00	56.0	40-140				
Fluoranthene	0.490	0.0500	"	1.00	49.0	40-140				
Fluorene	0.440	0.0500	"	1.00	44.0	40-140				
Indeno(1,2,3-cd)pyrene	0.540	0.0500	"	1.00	54.0	40-140				
Naphthalene	0.390	0.0500	"	1.00	39.0	40-140	Low Bias			
Phenanthrene	0.470	0.0500	"	1.00	47.0	40-140				
Pyrene	0.450	0.0500	"	1.00	45.0	40-140				

LCS Dup (BD30024-BSD1)							Prepared: 04/03/2023 Analyzed: 04/04/2023			
2-Methylnaphthalene	12.0	5.00	ug/L	25.0	47.9	40-140		2.71	20	
Surrogate: SURR: Nitrobenzene-d5	11.7		"	25.0	46.7	30-130				
Surrogate: SURR: 2-Fluorobiphenyl	9.49		"	25.0	38.0	30-130				
Surrogate: SURR: Terphenyl-d14	13.0		"	25.0	52.0	30-130				



## Gas Chromatography/Flame Ionization Detector - Quality Control Data

### York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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#### Batch BD30031 - EPA SW846-3510C Low Level

##### Blank (BD30031-BLK1)

ETPH (Extractable Total Petroleum Hydrocarbons)	ND	0.150	mg/L						Prepared: 04/03/2023	Analyzed: 04/04/2023
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Surrogate: *I*-Chlorooctadecane

0.0983 " 0.100 98.3 30-140

##### LCS (BD30031-BS1)

ETPH (Extractable Total Petroleum Hydrocarbons)	0.821	0.150	mg/L	0.750	109	60-120			Prepared: 04/03/2023	Analyzed: 04/04/2023
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Surrogate: *I*-Chlorooctadecane

0.0882 " 0.100 88.2 30-140

##### LCS Dup (BD30031-BSD1)

ETPH (Extractable Total Petroleum Hydrocarbons)	1.07	0.150	mg/L	0.750	143	60-120	High Bias	26.8	Prepared: 04/03/2023	Analyzed: 04/04/2023
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Surrogate: *I*-Chlorooctadecane

0.137 " 0.100 137 30-140



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23C1830-01	MW-14	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

- S-D The surrogates were spiked at twice the normal concentration and recovery is within limits.
- S-08 The recovery of this surrogate was outside of QC limits.
- QR-04 The RPD exceeded control limits for the LCS/LCSD QC.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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.

### 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.

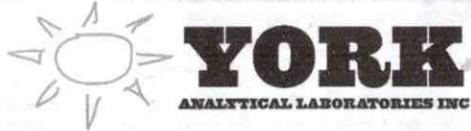
Certification for pH is no longer offered by NYDOH ELAP.



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.

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## **Field Chain-of-Custody Record**

York Analytical Laboratories, Inc. (YORK's) Standard Terms & Conditions are listed on the back side of this document.  
This document serves as your written authorization for YORK to proceed with the analyses requested below.  
Your signature binds you to YORK's Standard Terms & Conditions.

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**WORK Project No.**

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