



ASTEM ENVIRONMENTAL, INC.

ENVIRONMENTAL ENGINEERING CONSULTANTS
AIR, WATER, SOIL RADON, ASBESTOS, LEAD TESTS

11712 S.W. 128th Pl.
Miami, Fl. 33186

Tel: (917) 497-0190

PHASE II ENVIRONMENTAL SITE ASSESSMENT

**278 FUEL STOP AND A1 AUTO REPAIR
LOCATED AT
392 LEONARD STREET
BROOKLYN, NEW YORK**

PREPARED FOR:

**278 FUEL STOP AND A1 AUTO REPAIR
LOCATED AT
392 LEONARD STREET
BROOKLYN, NEW YORK**

SUBMITTED BY:

ASTEM ENVIRONMENTAL, INC.

April, 2022

DATE: _____

Analytical Systems & Technologies for Environmental Management
(305) 388-1317

(917) 497-0190

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1.0 Introduction

Four temporary onsite wells were drilled by Coastal Environmental Solutions, Inc. of PO Box 342 Medford, NY 11763 on March 30, 2022. The depth to groundwater was measured at approximately 13 feet and soil samples were collected within the capillary fringe approximately 3 -5 feet above the water table.

Soil and groundwater samplings were collected from the premises and delivered to York Analytical Laboratories, Inc. of 120 Research Drive, Stratford, CT 06615 under strict Chain-of custody protocol.

2.0 Results and Discussion

Tables 1-4 summarize and compare the concentrations of petroleum constituents found in the soil and groundwater taken from the temporary wells. The concentration of total volatile organic compounds (VOCs) in the soil taken from BH-1 and BH-4 (**681,100ppb** and **341,000ppb** respectively as shown in Table 1) and groundwater taken BH-1 and BH-4 (**5,348ppb** and **3,254** respectively as shown on table 3) were the highest. The highest concentrations of VOCs were detected in soil and groundwater taken from borehole BH-1.

The highest concentrations of semi-volatiles (SVOCs) were detected in soil sampled from BH-2. It should be noted that the concentrations of SVOCs in soil sampled from the other boreholes BH-1, BH-3 and BH-4 were below the New York State Department of Environmental Conservation (NYSDEC) regulatory limits of 330ppb except for naphthalene (see table 2).

Similarly, the concentrations of SVOCs in groundwater sampled from boreholes BH-1, BH-2, BH-3 and BH-4 were in most cases below the NYSDEC regulatory limits of 5ppb except for naphthalene (see table 4).

3.0 Conclusion

The high concentrations of volatile organic compounds (VOCs) in the groundwater were located primarily in the vicinity of the diesel dispenser (BH-1), the multiproduct dispenser (BH-2) and the entrance of Al Auto Repair shop (BH-4). However, it can be assumed that high concentrations may also be present at other locations of the property. This could only be ascertained by sampling and analyzing soil and groundwater from other locations.

4.0 Recommendation

ASTEM recommends **the installation of a soil vapor extraction system to remediate the soil and groundwater** at 392 Leonard Street, Brooklyn, New York.

ASTEM is pleased to have been of service to 278 Furl Stop and AI Auto Repair. Please do not hesitate to contact us at (917) 497-0190 should you have any further questions.

Sincerely,



Norman Munroe, Eng.Sc.D.
Technical Director
ASTEM Environmental, Inc.

TABLE 1
SUMMARY OF SOIL ANALYTICAL RESULTS
392 LEONARD STREET, BROOKLYN. NY
VOLATILE ORGANICS, CP-51

Analyte	BH-1	BH-2	BH-3	BH-4	NYSDEC Standard (ppb)
Date Sampled	3-30-22	3-30-22	3-30-22	3-30-22	
1,2,4-Trimethylbenzene	110,000	ND	ND	2,100	5
1,3,5-Trimethylbenzene	29,000	ND	ND	25,00	5
Benzene	ND	ND	ND	ND	5
Ethylbenzene	31,000	ND	ND	160,000	5
Isopropylbenzene	48,000	1100	ND	23,000	5
Methyl tert-butyl ether	ND	ND	ND	ND	10
Naphthalene	14,000	330	ND	37,000	10
α -Butylbenzene	4,000	780	ND	19,000	5
α -Propylbenzene	17,000	1400	ND	71,000	5
o-Xylene	63,000	ND	ND	ND	10
m,p-Xylene	150,000	ND	ND	7,500	50
p-isopropyl toluene	1,200	ND	ND	3,900	5
sec-Butylbenzene	2,000	ND	ND	10,000	5
Total Xylenes	210,000	ND	ND	7,500	
Toluene	1,900	ND	ND	ND	
Total VOCs (PPB)	681,100	2,510	ND	341,000	

TABLE 2
SUMMARY OF SOIL ANALYTICAL RESULTS
392 LEONARD STREET, BROOKLYN. NY
SEMI-VOLATILE ORGANICS, CP-51

Analyte	BH-1	BH-2	BH-3	BH-4	NYSDEC Standard (PPB)
Date Sampled	3-30-22	3-30-22	3-30-22	3-30-22	
Acenaphthene	ND	4,000	ND	62	330
Acenaphthylene	ND	ND	ND	130	330
Antracene	85	9,300	96	130	330
Benzo(α)anthracene	130	20,000	150	130	330
Benzo(α)pyrene	100	21,000	170	200	330
Benzo(b)fluoranthene	76	16,000	150	160	330
Benzo(g,h,i)perylene	66	9,900	99	170	330
Benzo(k)fluoranthene	93	14,000	150	160	330
Chrysene	130	16,000	ND	120	330
Dibenzo(a,b)anthracene	ND	4,400	ND	67	330
Fluoranthene	290	41,000	220	190	330
Fluorene	140	4,500	ND	100	330
Indeno(1,2,3-c,d) pyrene	65	12,000	120	160	330
Naphthalene	6,800	1,200	ND	3,000	330
Phenanthrene	360	38,000	90	250	330
Pyrene	270	33,000	190	170	330

TABLE 3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
392 LEONARD STREET, BROOKLYN. NY
VOLATILE ORGANICS, CP-51

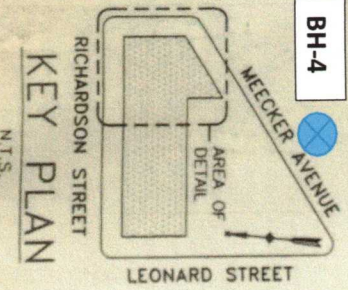
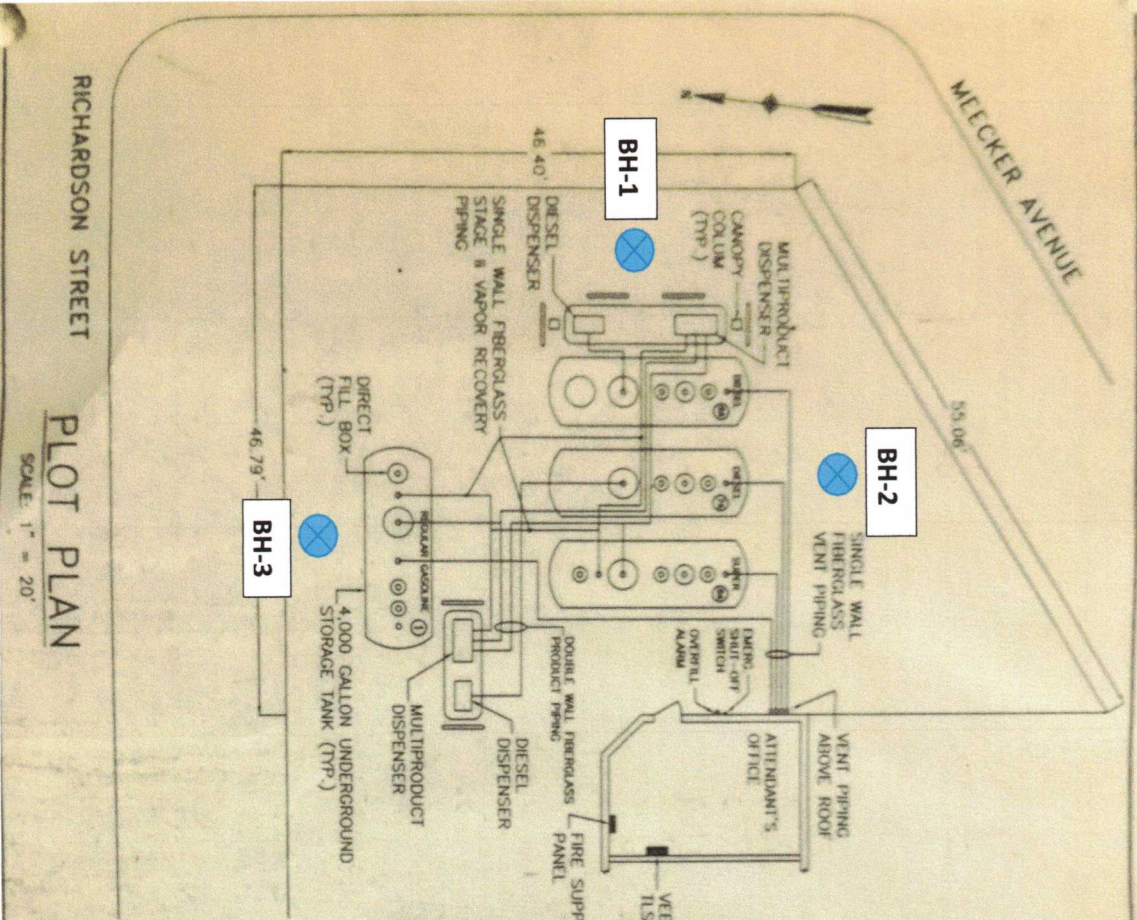
Analyte	BH-1	BH-2	BH-3	BH-4	NYSDEC Standard (PPB)
Date Sampled	3-30-22	3-30-22	3-30-22	3-30-22	
1,2,4-Trimethylbenzene	520	130	110	24	5.0
1,3,5-Trimethylbenzene	150	32	53	36	5.0
Benzene	200	28	500	1200	0.7
Ethylbenzene	540	140	230	910	5.0
Isopropylbenzene	68	26	210	190	5.0
Methyl tert-butyl ether	5.9	2.3	50	47	10.0
Naphthalene	93	44	230	100	10.0
α -Butylbenzene	22	4.8	38	29	5.0
α -Propylbenzene	160	42	350	350	5.0
o-Xylene	280	100	26	20	5.0
m,p-Xylene	1,400	350	130	130	5.0
p-isopropyl toluene	2.6	1.4	4.4	ND	5.0
sec-Butylbenzene	16	9.6	31	26	5.0
Total Xylenes	1,700	460	160	150	5.0
Toluene	190	65	47	42	5.0
Total VOCs (PPB)	5,348	1,435	2,169	3,254	

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
392 LEONARD STREET, BROOKLYN, NY
SEMI-VOLATILE ORGANICS, CP-51

Analyte	BH-1	BH-2	BH-3	BH-4	NYSDEC CRQL (PPB)
Date Sampled	3-30-22	3-30-22	3-30-22	3-30-22	
Acenaphthene	2.4	32	ND	ND	5
Acenaphthylene	0.67	ND	ND	ND	5
Anthracene	1.6	ND	ND	ND	5
Benzo(α)anthracene	1.9	ND	ND	ND	5
Benzo(α)pyrene	1.4	ND	ND	ND	5
Benzo(b)fluoranthene	1.2	ND	ND	ND	5
Benzo(g,h,i)perylene	0.68	ND	ND	ND	5
Benzo(k)fluoranthene	1.2	ND	ND	ND	5
Chrysene	1.8	ND	ND	ND	5
Dibenzo(a,b)anthracene	0.23	ND	ND	ND	5
Fluoranthene	5.1	64	ND	ND	5
Fluorene	3.1	37	ND	ND	5
Indeno(1,2,3-c,d) pyrene	0.69	ND	ND	ND	5
Naphthalene	470	59	ND	69	10
Phenanthrene	7.3	110	ND	ND	5
Pyrene	4.3	50	ND	ND	5

APPENDIX A

SCHEMATIC DIAGRAMS



TANK SYSTEM SUMMARY TABLE

NYS DEPARTMENT OF BUILDINGS APPLICATION No.: 20080827 (MARCH 1999)
CONTRACTOR OF RECORD: BIRNEY PETROLEUM, 999 East 92 St., BROOKLYN, NY 11226
TANK #1: INSTALLED CIRCA 1972 TANKS #9A, #7A, #9A INSTALLED CIRCA 1989
TANK #1: 4,000 GALLON REGULAR GASOLINE SINGLE WALL CATN PROTECTED STEEL TANK
TANK #9A: 4,000 GALLON DIESEL DOUBLE WALL EPOXY COATED STEEL TANK
TANK #7A: 4,000 GALLON DIESEL DOUBLE WALL EPOXY COATED STEEL TANK
TANK #9A: 4,000 GALLON REGULAR GASOLINE DOUBLE WALL EPOXY COATED STEEL TANK
PRODUCT PIPING: DOUBLE WALL FIBERGLASS
STAGE I & STAGE B VAPOR RECOVERY PIPING: SINGLE WALL FIBERGLASS
VENT PIPING: SINGLE WALL FIBERGLASS
DISPENSERS: MULTIPRODUCT WITH SHARF VALVES UNDER DISPENSERS
PUMPING SYSTEM: PRESSURIZED, SUBMERSIBLE PUMP IN TANK
FILL BOX: 15 GALLON SPILL CONTAINMENT MANTREL
TANK MONITORING SYSTEM: VEEDER-ROOT TILS-350

NOTES:
1. LOCATION OF PIPING IS APPROXIMATE

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION COMPLIANCE STATEMENT

THIS SYSTEM HAS BEEN INSTALLED IN COMPLIANCE WITH THE STANDARDS FOR NEW AND SUBSTANTIALLY MODIFIED SYSTEMS IN ACCORDANCE WITH 6 NYCRR PART 614.

AS-BUILT DRAWING

NYSDEC PBS REGISTRATION No.: 2-510793

278 FUEL STOP
392 LEONARD STREET
BROOKLYN, NY 11211
BLOCK: 2733; LOT: 7
ZONING: M1-2 in R6; ZONING MAP: 13a

MG CONSULTING
Michael Gimelfarb, P.E.
NACE Corrosion Specialist No. 3698
65-16 Boeisen Crescent, Rego Park NY 11374
Tel: (718) 997-1262

DATE: 06-10-10 DRAWN BY: T.Z. CAD FILE NAME: T-1 REV: SCALE: NONE CHECKED BY: M.S. P:\382LEONARD.COM

PLLOT PLAN

SCALE: 1" = 20'

KEY PLAN

N.T.S.

APPENDIX B

GROUNDWATER ANALYTICAL RESULTS (4/30/2022)



Technical Report

prepared for:

ASTEM Environmental, Inc.
11712 SW 128 Place
Miami FL, 33186
Attention: Dr. Norman Munroe

Report Date: 04/07/2022
Client Project ID: 278 Fuel Stop
York Project (SDG) No.: 22C1676

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

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RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Page 1 of 25

Report Date: 04/07/2022
Client Project ID: 278 Fuel Stop
York Project (SDG) No.: 22C1676

ASTEM Environmental, Inc.
11712 SW 128 Place
Miami FL, 33186
Attention: Dr. Norman Munroe

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 30, 2022 and listed below. The project was identified as your project: **278 Fuel Stop**.

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>
22C1676-01	BH1 Soil	Soil	03/30/2022	03/30/2022
22C1676-02	BH1 GW	Water	03/30/2022	03/30/2022
22C1676-03	BH2 Soil	Soil	03/30/2022	03/30/2022
22C1676-04	BH2 GW	Water	03/30/2022	03/30/2022
22C1676-05	BH3 Soil	Soil	03/30/2022	03/30/2022
22C1676-06	BH3 GW	Water	03/30/2022	03/30/2022
22C1676-07	BH4 Soil	Soil	03/30/2022	03/30/2022
22C1676-08	BH4 GW	Water	03/30/2022	03/30/2022

General Notes for York Project (SDG) No.: 22C1676

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
Laboratory Manager

Date: 04/07/2022





Sample Information

Client Sample ID: BH1 Soil

York Sample ID: 22C1676-01

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 815A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	110000		ug/kg dry	1400	2900	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 12:17	FTR
108-67-8	1,3,5-Trimethylbenzene	29000		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
71-43-2	Benzene	ND		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
100-41-4	Ethyl Benzene	31000		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
98-82-8	Isopropylbenzene	4800		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
91-20-3	Naphthalene	14000		ug/kg dry	290	1200	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
104-51-8	n-Butylbenzene	4800		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
103-65-1	n-Propylbenzene	17000		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
95-47-6	o-Xylene	63000		ug/kg dry	1400	2900	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 12:17	FTR
179601-23-1	p- & m- Xylenes	150000		ug/kg dry	1400	2900	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 12:17	FTR
99-87-6	p-Isopropyltoluene	1200		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
135-98-8	sec-Butylbenzene	2000		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
108-88-3	Toluene	1900		ug/kg dry	290	580	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 16:34	FTR
1336-20-7	Xylenes, Total	210000		ug/kg dry	1400	2900	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 12:17	FTR
Surrogate Recoveries		Result	Acceptance Range								
13080-07-0	Surrogate: STUR: 1,2-Dichloroethane-d4	87.7 %	77-125								
2037-26-5	Surrogate: STUR: Toluene-d8	94.4 %	85-120								
460-00-4	Surrogate: STUR: p-Bromofluorobenzene	105 %	76-130								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT **Sample Notes:**

120 RESEARCH DRIVE
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STRATFORD, CT 06615
(203) 325-1371

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

RICHMOND HILL, NY 11418
ClientServices@



Sample Information

Client Sample ID: BH1 Soil

York Sample ID: 22C1676-01

York Project (SDG) No. 22C1676 **Client Project ID** 278 Fuel Stop **Matrix** Soil **Collection Date/Time** March 30, 2022 1:50 pm **Date Received** 03/30/2022

Sample Prepared by Method: EPA 1546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MED	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
120-12-7	Anthracene	85	J	ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
56-55-3	Benzo(a)anthracene	130		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
50-32-8	Benzo(a)pyrene	100		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
205-99-2	Benzo(b)fluoranthene	76	J	ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
191-24-2	Benzo(g,h,i)perylene	66	J	ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
207-08-9	Benzo(k)fluoranthene	93	J	ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
218-01-9	Chrysene	130		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
83-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
206-44-0	Fluoranthene	290		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
86-73-7	Fluorene	140		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
193-39-5	Indeno(1,2,3-cd)pyrene	65	J	ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
91-20-3	Naphthalene	6800		ug/kg dry	240	480	10	EPA 8270D Certifications	04/01/2022 13:00	04/05/2022 23:45	KH
85-01-8	Phenanthrene	360		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:57	KH
129-00-0	Pyrene	270		ug/kg dry	48	95	2	EPA 8270D Certifications	04/01/2022 13:00	04/04/2022 20:37	KH
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	60.1 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	68.0 %	21-113								
1718-51-0	Surrogate: SURR: Terphenyl-d14	69.4 %	24-116								

Total Solids

Sample Prepared by Method: % Solids Prep

Log-in Notes: VOA-CONT **Sample Notes:**

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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: BH1 Soil

York Sample ID: 22C1676-01

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

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
9004	% Solids	86.4		%	0.100	1	SM 2540G Certifications: CTDOH	04/05/2022 11:47	04/05/2022 14:34	VR

Sample Information

Client Sample ID: BH1 GW

York Sample ID: 22C1676-02

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: VOA-Jar

Sample Notes:

Sample Prepared by Method: EPA 503B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	520		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
106-67-8	1,3,5-Trimethylbenzene	150		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
71-43-2	Benzene	200		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
100-41-4	Ethyl Benzene	540		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
98-82-8	Isopropylbenzene	68		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
1034-04-4	Methyl tert-butyl ether (MTBE)	5.9		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
91-20-3	Naphthalene	93		ug/L	10	20	10	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
104-51-8	n-Butylbenzene	22		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
103-65-1	n-Propylbenzene	160		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
95-47-6	o-Xylene	280		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
179901-23-1	p- & m-Xylenes	1400		ug/L	50	100	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/07/2022 12:23	PD
98-87-6	p-Isopropyltoluene	2.6	J	ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD
135-98-8	sec-Butylbenzene	16		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	04/06/2022 09:00	04/06/2022 12:07	PD

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ClientServices@



Sample Information

Client Sample ID: BH1 GW

York Sample ID: 22C1676-02

York Project (SDG) No:
22C1676

Client Project ID:
278 Fuel Stop

Matrix:
Water

Collection Date/Time:
March 30, 2022 1:50 pm

Date Received:
03/30/2022

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: VOA-Iar

Sample Notes:

Sample Prepared by Method: EPA 8030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8210C Certifications	04/06/2022 09:00	04/06/2022 12:07	PD
108-88-3	Toluene	190		ug/L	2.0	5.0	10	EPA 8210C Certifications	04/06/2022 09:00	04/06/2022 12:07	PD
1330-20-7	Xylenes, Total	1700		ug/L	60	150	100	EPA 8210C Certifications	04/06/2022 09:00	04/07/2022 12:21	PD
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: STURR 1,2-Dichloroethane-d4	102 %			69-130						
2057-26-5	Surrogate: STURR: Toluene-d8	98.7 %			81-117						
400-00-4	Surrogate: STURR p-Brumofluorobenzene	103 %			79-122						

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-Iar

Sample Notes: EXT-D, EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	2.4		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
208-96-8	Acenaphthylene	0.67		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
120-12-7	Anthracene	1.6		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
56-55-3	Benzo(a)anthracene	1.9		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
50-32-8	Benzo(a)pyrene	1.4		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
205-99-2	Benzo(b)fluoranthene	1.2		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
191-24-2	Benzo(g,h,i)perylene	0.68		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
207-08-9	Benzo(k)fluoranthene	1.2		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
218-01-9	Chrysene	1.8		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
51-70-3	Dibenz(a,h)anthracene	0.23		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
206-44-0	Fluoranthene	5.1		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH
86-73-7	Fluorene	3.1		ug/L	0.056	0.056	1	EPA 8270D Certifications	04/01/2022 07:22	04/01/2022 19:15	KH

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Sample Information

Client Sample ID: BH1 GW

York Sample ID: 22C1676-02

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-Jar

Sample Notes: EXT-D, EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-19-5	Indeno(1,2,3-cd)pyrene	0.69		ug/L	0.056	0.056	1	EPA 8270D Certification: CTDOH/NELAC-NY10854/NIDEPP/PADEP	04/01/2022 07:22	04/01/2022 19:15	KH
91-20-3	Naphthalene	470		ug/L	2.8	2.8	50	EPA 8270D Certification: CTDOH/NELAC-NY10854/NIDEPP/PADEP	04/01/2022 07:22	04/04/2022 11:32	KH
85-01-8	Phenanthrene	7.3		ug/L	0.056	0.056	1	EPA 8270D Certification: CTDOH/NELAC-NY10854/NIDEPP/PADEP	04/01/2022 07:22	04/01/2022 19:15	KH
129-00-0	Pyrene	4.3		ug/L	0.056	0.056	1	EPA 8270D Certification: CTDOH/NELAC-NY10854/NIDEPP/PADEP	04/01/2022 07:22	04/01/2022 19:15	KH
Surrogate Recoveries		Result			Acceptance Range						
4105-40-0	Surrogate: SURR: Nitrobenzene-d5	69.8 %			50.2-113						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	71.6 %			39.9-105						
1718-51-0	Surrogate: SURR: Terphenyl-d14	46.4 %			30.7-106						

Sample Information

Client Sample ID: BH2 Soil

York Sample ID: 22C1676-03

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 503.5A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
71-43-2	Benzene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
100-41-4	Ethyl Benzene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
98-82-8	Isopropylbenzene	1100		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
91-20-5	Naphthalene	330	J	ug/kg dry	320	1300	100	EPA 8260C Certification: NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEP	04/06/2022 09:00	04/06/2022 17:01	FTR

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Sample Information

Client Sample ID: BH2 Soil

York Sample ID: 22C1676-03

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT Sample Notes:

Sample Prepared by Method: EPA 8035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	L.OQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	700		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
103-65-1	n-Propylbenzene	1400		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
95-47-6	o-Xylene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
179601-23-4	p- & m- Xylenes	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
115-98-8	sec-Butylbenzene	1100		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
108-88-3	Toluene	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
1330-20-7	Xylenes, Total	ND		ug/kg dry	320	630	100	EPA 8260C Certification: CTDOR/NELAC-NY10854/NELAC-NY12058/NIDRPPADEP	04/06/2022 09:00	04/06/2022 17:01	FTR
S surrogate Recoveries		Result	Acceptance Range								
17060-07-0	S surrogate: STURR: 1,2-Dichloroethane-d4	92.7 %	77-125								
2037-26-5	S surrogate: STURR: Toluene-d8	95.1 %	85-120								
460-00-4	S surrogate: STURR: p-Bromofluorobenzene	100 %	76-130								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	L.OQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
81-32-9	Acenaphthene	4000		ug/kg dry	260	520	10	EPA 8270D Certification: CTDOR/NELAC-NY10854/NIDRPPADEP	03/31/2022 12:57	04/01/2022 19:14	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	260	520	10	EPA 8270D Certification: CTDOR/NELAC-NY10854/NIDRPPADEP	03/31/2022 12:57	04/01/2022 19:14	KH
120-12-7	Anthracene	9300		ug/kg dry	260	520	10	EPA 8270D Certification: CTDOR/NELAC-NY10854/NIDRPPADEP	03/31/2022 12:57	04/01/2022 19:14	KH
56-55-3	Benzo(a)anthracene	20000		ug/kg dry	1300	2600	50	EPA 8270D Certification: CTDOR/NELAC-NY10854/NIDRPPADEP	03/31/2022 12:57	04/04/2022 16:59	KH
96-32-8	Benzo(a)pyrene	21000		ug/kg dry	1300	2600	50	EPA 8270D Certification: CTDOR/NELAC-NY10854/NIDRPPADEP	03/31/2022 12:57	04/04/2022 16:59	KH
205-99-2	Benzo(b)fluoranthene	16000		ug/kg dry	260	520	10	EPA 8270D Certification: CTDOR/NELAC-NY10854/NIDRPPADEP	03/31/2022 12:57	04/01/2022 19:14	KH

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Sample Information

Client Sample ID: BH2 Soil

York Sample ID: 22C1676-03

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 8015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	780		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
103-65-1	n-Propylbenzene	1400		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
95-47-6	o-Xylene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
179601-23-3	p- & m- Xylenes	ND		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
135-98-8	sec-Butylbenzene	1100		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
108-88-3	Toluene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
1330-20-7	Xylenes, Total	ND		ug/kg dry	320	630	100	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 17:01	FTR
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	92.7 %	77-125								
2037-26-5	Surrogate: SURR: Toluene-d8	95.1 %	85-120								
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	100 %	76-130								

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 1546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	4000		ug/kg dry	260	520	10	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:14	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	260	520	10	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:14	KH
120-12-7	Anthracene	9300		ug/kg dry	260	520	10	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:14	KH
56-55-3	Benzo(a)anthracene	20000		ug/kg dry	1300	2600	50	EPA 8270D Certifications	03/31/2022 12:57	04/04/2022 16:59	KH
50-32-8	Benzo(a)pyrene	21000		ug/kg dry	1300	2600	50	EPA 8270D Certifications	03/31/2022 12:57	04/04/2022 16:59	KH
205-99-2	Benzo(b)fluoranthene	16000		ug/kg dry	260	520	10	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:14	KH

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Sample Information

Client Sample ID: BH2 GW

York Sample ID: 22C1676-04

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: VOA-Jar

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LLO/MDL	LLO/MDL	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	130		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
106-67-8	1,3,5-Trimethylbenzene	32		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
71-43-2	Benzene	28		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
100-41-4	Ethyl Benzene	140		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
98-82-8	Isopropylbenzene	26		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	2.3	J	ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
91-20-3	Naphthalene	44		ug/L	5.0	10	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
104-51-8	n-Butylbenzene	4.8		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
103-65-1	n-Propylbenzene	42		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
95-47-6	o-Xylene	100		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
179901-23-1	p- & m- Xylenes	350		ug/L	2.5	5.0	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
99-87-6	p-Isopropyltoluene	1.4	J	ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
135-98-8	sec-Butylbenzene	9.6		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
98-06-6	tert-Butylbenzene	ND		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
108-88-3	Toluene	65		ug/L	1.0	2.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
1330-20-7	Xylenes, Total	460		ug/L	3.0	7.5	5	EPA 8260C Certifications	04/06/2022 09:00	04/06/2022 12:35	PD
Surrogate Recoveries		Result			Acceptance Range						
17090-07-0	Surrogate: SURR 1,2-Dichloroethane-d4	104 %			69-130						
2037-26-5	Surrogate: SURR: Toluene-d8	98.2 %			81-117						
460-00-4	Surrogate: SURR p-Bromofluorobenzene	102 %			79-122						

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-Jar

Sample Notes: EXT-D, EXT-EM

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Sample Information

Client Sample ID: BH2 GW

York Sample ID: 22C1676-04

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Sample Prepared by Method: EPA 8210C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	32	J	ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
208-96-8	Acenaphthylene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
120-12-7	Anthracene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
218-01-9	Chrysene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
53-70-3	Dibenz(a,h)anthracene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
206-44-0	Fluoranthene	64		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
86-73-7	Fluorene	37	J	ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
91-20-3	Naphthalene	59	J	ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
85-01-8	Phenanthrene	110		ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
129-06-0	Pyrene	50	J	ug/L	31	62	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 15:27	KH
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: ST/RR Nitrobenzene-d5	42.8 %	5-04		50.2-113						
321-60-8	Surrogate: ST/RR 2-Fluorobiphenyl	85.6 %			39.9-105						
1318-51-0	Surrogate: ST/RR Terphenyl-d14	51.6 %			30.7-106						

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Sample Information

Client Sample ID: BH3 Soil

York Sample ID: 22C1676-05

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 8215A

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
71-43-2	Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
106-41-4	Ethyl Benzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
91-20-3	Naphthalene	ND		ug/kg dry	3.2	13	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
103-65-1	m-Propylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
95-47-6	o-Xylene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
108-88-3	Toluene	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
1330-20-7	Xylenes, Total	ND		ug/kg dry	3.2	6.4	1	EPA 8260C Certification	04/06/2022 00:00	04/06/2022 13:20	FTR
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: <i>STURR</i> <i>1,2-Dichloroethane-d4</i>	94.0 %	77-125								
2037-26-5	Surrogate: <i>STURR</i> Toluene-d8	103 %	85-120								
460-00-4	Surrogate: <i>STURR</i> <i>p-Bromofluorobenzene</i>	108 %	76-130								

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Sample Information

Client Sample ID: BH3 Soil

York Sample ID: 22C1676-05

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
120-12-7	Anthracene	96	J	ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
56-55-3	Benzo(a)anthracene	150		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
56-32-8	Benzo(a)pyrene	170		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
205-99-2	Benzo(b)fluoranthene	150		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
191-24-2	Benzo(g,h,i)perylene	99	J	ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
207-08-9	Benzo(k)fluoranthene	150		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
218-01-9	Chrysene	150		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
53-70-3	Dibenz(a,h)anthracene	ND		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
206-44-0	Fluoranthene	220		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
86-73-7	Fluorene	ND		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
193-39-5	Indeno(1,2,3-cd)pyrene	120		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
91-20-3	Naphthalene	ND		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
85-01-8	Phenanthrene	90	J	ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
129-00-0	Pyrene	190		ug/kg dry	52	100	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 19:44	KH
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	83.0 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	75.3 %	21-113								
1718-51-0	Surrogate: SURR: Terphenyl-d14	77.2 %	24-116								

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

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Sample Information

Client Sample ID: BH3 Soil

York Sample ID: 22C1676-05

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

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	77.9		%	0.100	1	SM 2540G Certifications: CTDOH	04/05/2022 11:47	04/05/2022 14:34	VR

Sample Information

Client Sample ID: BH3 GW

York Sample ID: 22C1676-06

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: VOA-Jar

Sample Notes:

Sample Prepared by Method: EPA 800B

CAS No.	Parameter	Result	Flag	Units	Reported to LOB/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	110		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
108-67-8	1,3,5-Trimethylbenzene	53		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
71-43-2	Benzene	500		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
100-41-4	Ethyl Benzene	230		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
98-82-8	Isopropylbenzene	210		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	50		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
91-20-3	Naphthalene	230		ug/L	10	20	10	EPA 8260C Certifications: NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
104-51-8	n-Butylbenzene	38		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
103-65-1	n-Propylbenzene	380		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
95-47-6	o-Xylene	26		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
179601-23-1	p- & m-Xylenes	130		ug/L	5.0	10	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
99-87-6	p-Isopropyltoluene	4.4	J	ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
135-98-8	sec-Butylbenzene	31		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD
98-06-6	tert-Butylbenzene	3.4	J	ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH/NELAC-NY10854/NELAC-NY12058/NIDEPP/PADEF	04/06/2022 09:00	04/06/2022 13:04	PD

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Sample Information

Client Sample ID: BH3 GW

York Sample ID: 22C1676-06

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: VOA-Jar

Sample Notes:

Sample Prepared by Method: EPA 8030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-88-3	Toluene	47		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/06/2022 09:00	04/06/2022 13:04	PD
1330-20-7	Xylenes, Total	160		ug/L	6.0	15	10	EPA 8260C Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/06/2022 09:00	04/06/2022 13:04	PD
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: STURR 1,2-Dichloroethane-d4	97.4 %			69-130						
2037-26-5	Surrogate: STURR Toluene-d8	99.4 %			81-117						
460-00-4	Surrogate: STURR p-Bromofluorobenzene	101 %			79-122						

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-Jar

Sample Notes: EXT-D, EXT-EM

Sample Prepared by Method: EPA 8210C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
208-96-8	Acenaphthylene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
120-12-7	Anthracene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
218-01-9	Chrysene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
83-70-3	Dibenz(a,h)anthracene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
206-44-0	Fluoranthene	ND		ug/L	120	250	10	EPA 8270D Certifications: CTDORH,NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH
86-75-7	Fluorene	ND		ug/L	120	250	10	EPA 8270D Certifications: NELAC-NY10854,NIDEF,PADEP	04/01/2022 07:22	04/04/2022 15:58	KH

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ClientServices@



Sample Information

Client Sample ID: BH3 GW

York Sample ID: 22C1676-06

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-Jar

Sample Notes: EXT-D, EXT-EM

Sample Prepared by Method: EPA 8210C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	120	250	10	EPA 8270D Certifications	04/01/2022 07:22	04/04/2022 15:58	KH
91-20-3	Naphthalene	ND		ug/L	120	250	10	EPA 8270D Certifications	04/01/2022 07:22	04/04/2022 15:58	KH
85-01-8	Phenanthrene	ND		ug/L	120	250	10	EPA 8270D Certifications	04/01/2022 07:22	04/04/2022 15:58	KH
129-00-0	Pyrene	ND		ug/L	120	250	10	EPA 8270D Certifications	04/01/2022 07:22	04/04/2022 15:58	KH
Surrogate Recoveries		Result			Acceptance Range						
4165-80-0	Surrogate: SURR. Nitrobenzene-d5	%		S-04	50.7-113						
321-60-8	Surrogate: SURR. 2-Fluorenyl-biphenyl	83.6 %			39.9-105						
1118-91-0	Surrogate: SURR. Terphenyl-d14	59.6 %			30.7-106						

Sample Information

Client Sample ID: BH4 Soil

York Sample ID: 22C1676-07

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 8210A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	2100	J	ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
108-67-8	1,3,5-Trimethylbenzene	25000		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
71-43-2	Benzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
100-41-4	Ethyl Benzene	160000		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
98-82-8	Isopropylbenzene	23000		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
91-20-3	Naphthalene	37000		ug/kg dry	1800	7200	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR

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Sample Information

Client Sample ID: BH4 Soil York Sample ID: 22C1676-07
 York Project (SDG) No. 22C1676 Client Project ID 278 Fuel Stop Matrix Soil Collection Date/Time March 30, 2022 1:50 pm Date Received 03/30/2022

Volatiles Organics, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
104-51-8	n-Butylbenzene	19000		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
103-65-1	n-Propylbenzene	71000		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
95-47-6	o-Xylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
179601-23-1	p- & m- Xylenes	7500		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
98-87-6	p-Isopropyltoluene	3900		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
135-98-8	sec-Butylbenzene	10000		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
108-88-3	Toluene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
1330-20-7	Xylenes, Total	7500		ug/kg dry	1800	3600	500	EPA 8260C Certifications	04/07/2022 09:00	04/07/2022 14:32	FTR
Surrogate Recoveries		Result		Acceptance Range							
17060-07-0	Surrogate: STUR: 1,2-Dichloroethane-d4	76.8 %	S-09	77-125							
2037-26-3	Surrogate: STUR: Toluene-d8	93.8 %		85-120							
460-06-4	Surrogate: STUR: p-Bromofluorobenzene	108 %		76-130							

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT Sample Notes:

Sample Prepared by Method: EPA 1546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	62	J	ug/kg dry	59	120	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 20:14	KH
208-96-8	Acenaphthylene	130		ug/kg dry	59	120	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 20:14	KH
120-12-7	Anthracene	130		ug/kg dry	59	120	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 20:14	KH
56-55-3	Benzo(a)anthracene	130		ug/kg dry	59	120	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 20:14	KH
50-32-8	Benzo(a)pyrene	200		ug/kg dry	59	120	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 20:14	KH
205-99-2	Benzo(b)fluoranthene	160		ug/kg dry	59	120	2	EPA 8270D Certifications	03/31/2022 12:57	04/01/2022 20:14	KH

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Sample Information

Client Sample ID: BH4 Soil

York Sample ID: 22C1676-07

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Soil

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3546 SVOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
191-24-2	Benzo(g,h,i)perylene	170		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
207-08-9	Benzo(k)fluoranthene	160		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
218-01-9	Chrysene	120		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
53-70-3	Dibenzo(a,h)anthracene	67	J	ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
206-44-0	Fluoranthene	190		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
86-73-7	Fluorene	100	J	ug/kg dry	59	120	2	EPA 8270D Certification: NELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
193-39-5	Indeno(1,2,3-cd)pyrene	160		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
91-20-3	Naphthalene	3000		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
85-01-8	Phenanthrene	250		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
129-00-0	Pyrene	170		ug/kg dry	59	120	2	EPA 8270D Certification: CTDORUNELAC-NY10854NIDRPPADEP	03/31/2022 12:57	04/01/2022 20:14	KH
	Surrogate Recoveries	Result			Acceptance Range						
4165-60-0	Surrogate: SU-RR: Nitrobenzene-d5	99.9 %			22-108						
321-60-8	Surrogate: SU-RR: 2-Fluorobiphenyl	84.7 %			21-113						
1718-51-0	Surrogate: SU-RR: Triphenyl-d14	91.0 %			24-116						

Total Solids

Log-in Notes: VOA-CONT

Sample Notes:

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	69.0		%	0.100	1	SM 2540G Certification: CTDORUNELAC-NY10854NIDRPPADEP	04/05/2022 11:47	04/05/2022 14:34	VR

Sample Information

Client Sample ID: BH4 GW

York Sample ID: 22C1676-08

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022



Sample Information

Client Sample ID: BH4 GW

York Sample ID: 22C1676-08

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Volatile Organics, CP-51 (STARS) Low level

Log-in Notes: VOA-Jar

Sample Notes:

Sample Prepared by Method: EPA 800B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	24		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
108-67-8	1,3,5-Trimethylbenzene	36		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
71-43-2	Benzene	1200		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
100-41-4	Ethyl Benzene	910		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
98-82-8	Isopropylbenzene	190		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
1634-04-4	Methyl tert-butyl ether (MTBE)	47		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
91-20-3	Naphthalene	100		ug/L	25	50	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
104-51-8	n-Butylbenzene	29		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
103-65-1	n-Propylbenzene	350		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
95-47-6	o-Xylene	20		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
179001-23-1	p- & m- Xylenes	130		ug/L	12	25	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
99-87-6	p-Isopropyltoluene	ND		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
135-98-8	sec-Butylbenzene	26		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
98-06-6	tert-Butylbenzene	ND		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
108-88-3	Toluene	42		ug/L	5.0	12	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
1330-20-7	Xylenes, Total	150		ug/L	15	38	25	EPA 8260C Certification	04/06/2022 09:00	04/06/2022 13:33	PD
Surrogate Recoveries		Result			Acceptance Range						
17080-07-0	Surrogate: STUR: 1,2-Dichloroethane-d4	101 %			69-130						
2037-26-5	Surrogate: STUR: Toluene-d8	98.1 %			81-117						
460-00-4	Surrogate: STUR: p-Bromofluorobenzene	102 %			79-122						

Semi-Volatiles, CP-51 (formerly STARS) List

Log-in Notes: VOA-Jar

Sample Notes: EXT-EM

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Sample Information

Client Sample ID: BH4 GW

York Sample ID: 22C1676-08

York Project (SDG) No.
22C1676

Client Project ID
278 Fuel Stop

Matrix
Water

Collection Date/Time
March 30, 2022 1:50 pm

Date Received
03/30/2022

Sample Prepared by Method: EPA 8210C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
208-96-8	Acenaphthylene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
120-12-7	Anthracene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
80-32-8	Benzo(a)pyrene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
218-01-9	Chrysene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
206-44-0	Fluoranthene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
86-73-7	Fluorene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
91-20-3	Naphthalene	69		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
85-01-8	Phenanthrene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
129-00-0	Pyrene	ND		ug/L	25	50	10	EPA 8270D Certification	04/01/2022 07:22	04/04/2022 16:29	KH
Surrogate Recoveries		Result		Acceptance Range							
4165-60-0	Surrogate: SURR. Nitrobenzene-d5	%		5-04	50.2-113						
321-60-8	Surrogate: SURR. 2-Fluorenbiphenyl	71.6 %			39.9-105						
1718-51-0	Surrogate: SURR. Terphenyl-d14	58.0 %			30.7-106						

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Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22C1676-01	BH1 Soil	40mL 01_Clear Vial Cool to 4° C
22C1676-02	BH1 GW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22C1676-03	BH2 Soil	40mL 01_Clear Vial Cool to 4° C
22C1676-04	BH2 GW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22C1676-05	BH3 Soil	8 oz. WM Clear Glass Cool to 4° C
22C1676-06	BH3 GW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22C1676-07	BH4 Soil	8 oz. WM Clear Glass Cool to 4° C
22C1676-08	BH4 GW	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



Sample and Data Qualifiers Relating to This Work Order

- VOA-Jar VOA sample was taken from a container noncompliant with SW-846 5035A due to a depletion of low-level vials. Results below 200 ug/Kg may be biased low.
VOA-CONT Non-Compliant - the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.
S-09 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect confirmed by re-extraction and re-analysis of the sample.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
S-01 The surrogate recovery for this sample may not be available due to sample dilution required from high analyte concentration and/or matrix interferences.
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.
J Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
EXT-D The sample submitted contained sediment. The aqueous portion was decanted off, the volume measured and used for the extraction. The sediment was not included in the extraction.
CCV-E The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

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 current NELAC/TNI Standards and applies to all analytes.
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.

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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 atochors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Atochors 1262 and 1268 which are non-target atochors 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 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. 22C1676

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YOUR Project Number

Turn-Around Time

RUSH - Next Day

RUSH - Two Day

RUSH - Three Day

RUSH - Four Day

Standard (5-7 Day)

YOUR Project Name

YOUR PO#:

Report / EDD Type (circle selections)

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

Container Description

Summary Report

Standard Excel EDD

CT RCP

CT RCP DOA/DUE

EQaIS (Standard)

QA Report

NY ASP A Package

NY DEP Reduced Deliverables

NY DEP SRP Har-Site

Other

NY ASP B Package

Other

Analysis Requested

VOC-Stacs / SVOC - 8270/81N

VOC-Stacs / SVOC - 8270/81N

Matrix Codes

S - soil / solid

GW - groundwater

DW - drinking water

WW - wastewater

O - Oil

Other

Sample Matrix

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

Soil - S

1 - 1

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