

July 20, 2018

Stephen M. Moore  
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via e-mail: [smoore@salisburybank.com](mailto:smoore@salisburybank.com)

Re: Letter Report of Environmental Sampling conducted at the property located at  
317 Main Street, Cornwall, Orange County, NY  
NYSDEC Spill #: 18-01592; WCD File: SC18035

Dear Mr. Moore:

This Letter Report of Environmental Sampling (Letter Report) summarizes the results of subsurface sampling of soil vapor, soil and groundwater conducted at the above referenced property (Site) on May 22, May 31, June 6 and July 6, 2018, by WCD Group (WCD).

## **OVERVIEW**

A Phase I Environmental Site Assessment (Phase I ESA) was conducted for the Site in September 2016 by Team Environmental Consultants. Based on review of the Phase I ESA, a Limited and Focused Subsurface Soil & Groundwater Investigation (Limited SSI) was conducted at the Site in March 2018 by LCS, Inc. Areas of environmental concern included past use of the Site as a gasoline station (dating back to 1932), as well as automotive sales and service operations. Findings of the Limited SSI suggested that a petroleum release had occurred at the Site; WCD called in a spill to NYSDEC on April 3, 2018 (NYSDEC Spill #18-01592).

The subject property is approximately 1 acre in size and contains a mixed use building (2-story at front and 1-story at the rear) occupied at the time of the Limited SSI by a window and glazing business, various offices and two upper level residential apartments. The Site is located in a commercial and residential area. The topography of the Site is generally level at grade. Groundwater is estimated to flow in a north/northeasterly direction. A map showing Site location is provided as Attachment A and a fieldwork map is provided as Attachment B. Groundwater contours are shown on maps provided as Attachments C and D.

## **FIELDWORK METHODOLOGY**

### **Summary**

WCD conducted the following subsurface investigation activities to further delineate the spill area and assess current Site conditions:

- May 22, 2018 - One round of soil vapor sampling at four (4) locations inside the building to screen for sub-slab impacts;

- May 31, 2018 – Investigation in former gasoline underground storage tank (UST) area between the front of the building and Main Street:
  - Ground penetrating radar (GPR) survey to locate and confirm on-site, subsurface utilities and to identify any remaining USTs;
  - Exploratory soil excavation and stockpiling of petroleum impacted soils for off-site disposal;
  - Collection of three (3) endpoint soil samples in the UST excavation area; and,
  - Collection of a waste characterization sample for soil repository approval.
- June 1, 2018 - Backfilling of excavation area with clean materials;
- June 6, 2018 - Extension of eleven (11) soil borings (four of which were converted to groundwater monitoring wells), and collection of soil samples;
- June 26, 2018 - Oversight of loading and off-site disposal of stockpiled contaminated soil; and,
- July 6, 2018 - Groundwater well development and sampling.

### **General Fieldwork Protocols**

All encountered soil was screened with a properly calibrated MiniRAE Lite 3000 photo-ionization detector (PID) for the presence of any volatile organic vapors where appropriate. WCD described all encountered media in field logs including specific characteristics, the presence of foreign materials, and field and instrument indications of contamination (e.g., staining, odors, PID readings). WCD collected samples in general conformance with NYSDEC and NYSDOH fieldwork protocols.

All samples were collected into appropriately sized containers provided by the laboratory (with preservatives as required for the specific analysis), and were maintained at proper temperatures (using ice packs and coolers as needed) while in WCD's custody. Samples were delivered via courier to York Analytical Laboratories, Inc., a New York State Department of Health-certified laboratory (ELAP Certification Number 10854) for chemical analyses. Appropriate chain-of-custody procedures were followed.

### **Soil Vapor Sampling**

Soil vapor sampling was conducted at four (4) locations within the on-site building: two in the front/northern side (SV-01 and SV-02) closest to the spill area; one in the central portion (SV-03); and one toward the rear of the building (SV-04). Soil vapor sampling was conducted in general conformance with applicable protocols set forth in the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006. A Fieldwork Map indicating the Site and all sampling locations is provided as Attachment B.

All soil vapor samples were collected into laboratory supplied 6-liter Summa Canisters equipped with 6-hour flow regulators, which were placed on the ground surface. Sampling locations were periodically

inspected (approximately every 30 minutes) to ensure proper operation of the sampling canisters and control valves. All sampling valves were properly closed after a sampling period of approximately 6 hours, with each canister maintaining a final negative internal pressure.

### **Excavation in UST Area**

WCD oversaw the excavation of an approximately 25-foot by 20-foot by 9-foot deep excavation in the vicinity of the former on-site USTs (as shown on historical maps). As part of site mobilization, in addition to calling in a utility mark-out, WCD engaged a subcontractor (Underground Survey, Inc.) to conduct a GPR survey. The locations of active gas, water, and sewer/wastewater lines were confirmed, along with a retired gas line, all running through the UST excavation area. A 6" thick rebar-enforced concrete slab was marked out at the center of the UST area and was believed to be part of a former filling island. Photographs of all phases of fieldwork are provided in Appendix E.

Excavation was performed by personnel from Karl Mannain & Sons Excavating, Inc., using a backhoe with a 14-foot reach. First, the 3-4" thick surface layer of asphalt was removed from the entire area, segregated and stockpiled along the southeastern side of the site. The concrete was then broken, removed in large pieces, segregated and stockpiled at the northeastern side of the property.

The maximum depth of excavation was approximately 8-9 feet bsg. Excavation was restricted by the presence of on-site utilities (water, sewer, and gas lines) running through the UST area. In addition to the utilities, excavation was restricted by the proximity of the public sidewalk, light post footings and Main Street to the north, building foundation and a first floor overhang to the south, and large boulders in the northwestern and western portions of the site (maximum depth of excavation in this area was 5 feet bsg). No tanks were encountered. Segments of cut-off piping were unearthed within the 0-4 feet interval across the northern side of the excavation area, but no vent or fill pipes were observed.

Contaminated soil exhibiting strong odors, staining and elevated PID readings (160 to 630 ppm) was generally observed from approximately 3-4 feet below surface grade (bsg) to approximately 8-9 feet bsg, the depth of the apparent groundwater table. Accessible impacted soil was excavated and stockpiled pending off-site disposal. Inaccessible, overtly contaminated soil remained at the base of the excavation and the northern, southern and western walls. The western wall was noted to exhibit significant field evidence of contamination, including the highest recorded PID readings, at a depth as shallow as 2 feet bsg. The excavation was subsequently backfilled with imported clean materials as a safety measure and to prevent collapse of the sidewalls. All excavated, stockpiled materials were disposed off-site at a permitted facility (disposal documentation is provided in Attachment H).

### **Soil Sampling**

Endpoint soil samples were collected at a depth of approximately 8-9 feet bsg (groundwater interface) at the southwestern (EP-01), north-central (EP-02) and eastern-northeastern (EP-03) walls, and the base of the center of the excavation (MW-01).

Eleven (11) mechanized soil borings were extended throughout the Site as follows:

- North of the existing building and south of Main Street (MW-01, SB-01 through SB- 05) in the vicinity of the former UST area;
- East of the northeast corner of the building (SB-06) in the driveway east of the former UST area;
- In the parking area along the northeastern property line (MW-03) southeast of the former UST area;
- In the central-eastern portion of the building (SB-07) in the vicinity of a hydraulic lift used for automobile servicing;
- In the center of the automobile service area (MW-02) in the central portion building; and,
- In the southern end of the automobile service area (MW-04).

All soil borings were extended by personnel from CoreDown Environmental Drilling, Inc. using a track-mounted Geoprobe direct-push corer, equipped with disposable acetate sleeves (used to prevent the cross contamination of soil samples). Soil was recovered at each boring location at intervals of 4 feet to a maximum depth of 12 to 16 feet bsg or until refusal was reached.

Subsurface soils encountered at the Site during the extension of the soil borings generally consisted of medium to coarse silty sands with gravel. Field evidence of contamination was observed, as follows:

**Table 1: Summary of Field Observations**

Boring ID	Staining	Odor	Peak PID Reading
SB-02	Gray staining 4-12'; sheen 8'	Moderate to strong petroleum odor 4-8'	628-760 ppm 4-8'
SB-03	Sheen 7.5'	Strong petroleum odor 6-12'	715-794 ppm 6-8'; 243-626 ppm 8-12' bsg
SB-04	Gray and Brown staining 0-8'; oily brown staining/product 10-12'	Moderate to strong petroleum odor 0-12'	394-622 ppm 0-4'; 784-910 ppm 4-8'; 698 to 1-6 ppm 8-12'
SB-05	No staining	Moderate to strong petroleum odor 4-8'	36-623 ppm 4-8'
SB-07	No staining	Mild petroleum odor 4-8'	77 ppm 4-8'
MW-01	Gray staining 4-8'	Slight to moderate petroleum odor 4-8'	177 ppm 4-8'
MW-03	Gray staining to 12'	Mild to moderate petroleum odor 0-12'	312 ppm 0-4'; 698 ppm 4-8'; 374 ppm 8-12'
MW-04	Gray staining 4-6'	Mild petroleum odor 4-12'	111 ppm 4-6'; 20-30 ppm 8-10'

Groundwater was encountered during the extension of the soil borings at 8-9 feet bsg. Slight sheens were noted on saturated soil in borings SB-02 through SB-04.

Soil samples were collected at each boring location at the groundwater interface, and at the most contaminated interval, if overt contamination was observed.

### **Groundwater Sampling**

Four (4) borings were completed as groundwater monitoring wells, which were constructed of two-inch PVC casing with varying lengths of 0.01-inch slotted PVC well screening across the water table. The wells were constructed such that a minimum of 2 feet of screening extended above the water table and up to 8 feet of screening extended below the water table. The annular space between the well screen and the borehole was backfilled with clean #1 silica sand to one foot above the well screen, with the remaining upper portion of the borehole sealed with one foot of hydrated bentonite above the sand pack. A cap was installed at the top of the PVC riser/stickup at each well. Depending on subsurface conditions and refusal, wells ranged in depth from 10.5 feet bsg (MW-04) to 15.16 feet bsg (MW-02).

Prior to development, each monitoring well casing was opened and the well column was immediately screened with a PID to document the presence of any volatile organic vapors. Water removed from each monitoring well was visually inspected for indications of contamination. Development was conducted using dedicated plastic tubing and a peristaltic pump, and was considered complete when purged water no longer appeared to be turbid. The wells were given time (as needed) to recover from development, and a minimum of three well volumes were purged prior to sampling.

During groundwater sampling of MW-01, PID readings up to 32 ppm were noted in the headspace of the well, along with strong petroleum odor and a slight sheen in the water. A slight petroleum odor was noted at MW-03 during sampling, with no significant PID readings. MW-02 and MW-04 (both inside the building) did not exhibit field evidence of contamination; a mild sulfur odor was detected in the purge water at MW-02.

### **LABORATORY RESULTS**

Maps showing elevated concentrations of petroleum volatile organic compounds (VOCs) in soil and groundwater are provided in Attachments C and D. Laboratory results are discussed below. Data summary tables for all media sampled are provided as Attachment F and a complete copy of the laboratory data packages is included as Attachment G.

#### **Soil Vapor Results**

The State of New York does not have any standards, criteria or guidance values (SCG) for volatile chemicals in subsurface vapors; relatively high concentrations of VOCs (i.e., potentially indicative of a subsurface release and/or a vapor intrusion risk), however, are identified below and in data summary tables, as warranted.

Soil vapor samples were analyzed for VOCs (USEPA TO-15). Relatively high levels of total BTEX (petroleum compounds associated with gasoline) were detected in samples SV-03 and SV-04 at 4,960 and 6,610  $\mu\text{g}/\text{m}^3$ , respectively. Tetrachloroethene (PCE; a chlorinated solvent) was detected at 450 and 490  $\mu\text{g}/\text{m}^3$ , respectively. By comparison, peak values for total BTEX and PCE were detected in samples SV-03 and SV-04 at 30 and 99  $\mu\text{g}/\text{m}^3$ , respectively. Multiple other VOCs typically encountered in urban/commercial settings, including petroleum compounds and other solvents, were reported in all samples at trace to low levels.

## **Soil Results**

SCGs for soil are based on NYSDEC Part 375-6 Unrestricted Use (UU) and Restricted Residential Use (RRU) Soil Cleanup Objectives (SCOs). Endpoint samples MW-1 and EP-01 to EP-03 were analyzed for NYSDEC CP-51 petroleum list VOCs (USEPA 8260). All other soil samples were analyzed for CP-51 VOCs and semi-volatile organic compounds (SVOCs, USEPA 8270), with the complete 8260 VOC list reported for samples from SB-04, SB-07, and MW-02 to MW-04.

### *Excavation Endpoint Samples*

Total petroleum VOCs were reported at 339.7 parts per million (ppm) at EP-01, with concentrations of 1,2,4-trimethylebenzene (150 ppm) above the RRU SCO (52 ppm) and multiple other BTEX and related compounds above UU SCOs including total xylenes (58 ppm, UU SCO 0.26 ppm) and 1,3,5-trimethylbenzene (46 ppm, UUSCO 8.4 ppm). Petroleum compounds were found at trace levels at EP-02 and were non-detect at EP-03. Total petroleum VOCs were reported at 52.8 ppm at base sample MW-01, with several compounds above UU SCOs including ethyl benzene (11 ppm, UU SCO 1 ppm), total xylenes (5.5 ppm), and 1,2,4-trimethylebenzene (20 ppm). Total petroleum VOCs were detected at 0.154 ppm at EP-02 with no exceedances of UU SCOs; no VOCs were detected at EP-03.

### *Soil Boring Samples*

Soil borings SB-01 through SB-05 were extended to provide further delineation data at the spill site. Peak total petroleum VOCs were reported at 528.1 ppm at SB-03 7-8 feet and at 323.6 ppm at SB-02 7-9 feet, located west of the excavation area near the adjoining property (identified on Sanborn maps as a former filling station). Several compounds were reported at concentrations above RRU SCOs at these locations, including total xylenes (180 ppm) and 1,2,4-trimethylebenzene (170 ppm). Total CP-51 petroleum VOCs were detected at 111.1 ppm at SB-04 10-12 feet (with 16.2 ppm at 7-9 feet), near the sidewalk northeast of the excavation area, and at 40.5 ppm at SB-05 6-8 feet, southeast of the excavation; both sampling locations contained one or more VOCs at concentrations above UU SCOs. The full VOC analysis at SB-04 also indicated contamination by methylcyclohexane (peak 20 ppm, UU SCO not established). Total VOCs were reported at 0.3 ppm at SB-01 8-9 feet, located south of the excavation near the on-site building, with no exceedances of UU SCOs. With the exception of a slightly elevated concentration of naphthalene (13 ppm, UU SCO 12 ppm) at SB-04 10-12 feet, no significant concentrations of SVOCs were detected.

Soil borings SB-06, SB-07, and MW-02 to MW-04 were extended to provide information on soil conditions in likely up- and cross-gradient locations, and to provide general screening for impacts from historical use of the central and rear portions of the on-site building as a vehicle repair facility. SB-06 and MW-03 were located east of the excavation area near the eastern adjoining property; all other borings were located within the on-site structure in the former service area. No CP-51 VOCs were detected at SB-06, and only trace levels of VOCs were detected in other borings. No SVOCs were detected in ant samples.

### **Groundwater Results**

SCGs for groundwater are based on Ambient Water Quality Standards (AWQS) provided in NYSDEC TOGS 1.1.1. Groundwater samples were analyzed for VOCs by USEPA method 8260.

Total VOCs were reported at MW-01 at approximately 2,568 parts per billion (ppb), with total VOCs at 2,579 ppb. VOCs were detected well above AWQS, including: benzene (420 ppb, AWQS 1 ppb), ethylbenzene (1,000 ppb, AWQS 5 ppb), total xylenes (310 ppb, AWQS 5 ppb), and 1,2,4-trimethylbenzene (280 ppb, AWQS 5 ppb) ppb).

Total VOCs were reported at MW-02 at approximately 607 ppb, including 1,4-dioxane (compound typically associated with chlorinated solvents, 140 ppb, AWQS not established), tert-butyl alcohol (TBA, non-chlorinated solvent, 71 ppb, AWQS not established), and an elevated concentration of MTBE (a gasoline additive, 390 ppb, AWQS 10 ppb). No other significant concentrations of VOCs were detected.

Total VOCs were reported at MW-03 at approximately 248 ppb, including elevated concentrations of multiple petroleum compounds (peak values reported for 1,2,4-trimethylbenzene at 56 ppb and cyclohexane at 57 ppb).

No significant contamination was reported at MW-04. Notable detections include trace concentrations of trichloroethylene (TCE) and its breakdown products (DCE and VC).

### **CONCLUSIONS AND RECOMMENDATIONS**

All readily accessible petroleum-impacted soil at the spill site has been excavated and disposed off-site; significant residual soil contamination, however, remains at the site, except to the east where clean end-points were obtained, and groundwater is contaminated. Impacted soil appears to extend under the surface at the adjoining properties to the north (public road) and west (former filling station), and may extend somewhat under the northern portion of the on-site structure. Existing data suggest that the spill event may be tied to a release at the western adjoining property.

**It is recommended that all data be provided to NYSDEC for review and support in determining the next response actions at the spill site.**

Soil vapor results for the central and rear portion of the building, along with elevated concentrations of MTBE, 1,4-dioxane and TBA detected in groundwater at MW-02, indicate a potential historical release of gasoline and solvents, likely associated with the former use of the facility for vehicle repair. The presence of elevated concentrations of MTBE upgradient of the spill site suggests that a separate



reportable spill event may have occurred at the on-site building. There is no evidence of any significant impacts beneath the front of the building (former showroom), closest to the spill site.

**Additional investigation is warranted to determine subsurface conditions beneath the central and southern portions of the on-site building.**

Please review this document and contact me at (845) 452-1658 should you have any questions or require additional information.

Sincerely,

WCD GROUP



Paul H. Ciminello  
Executive Vice President

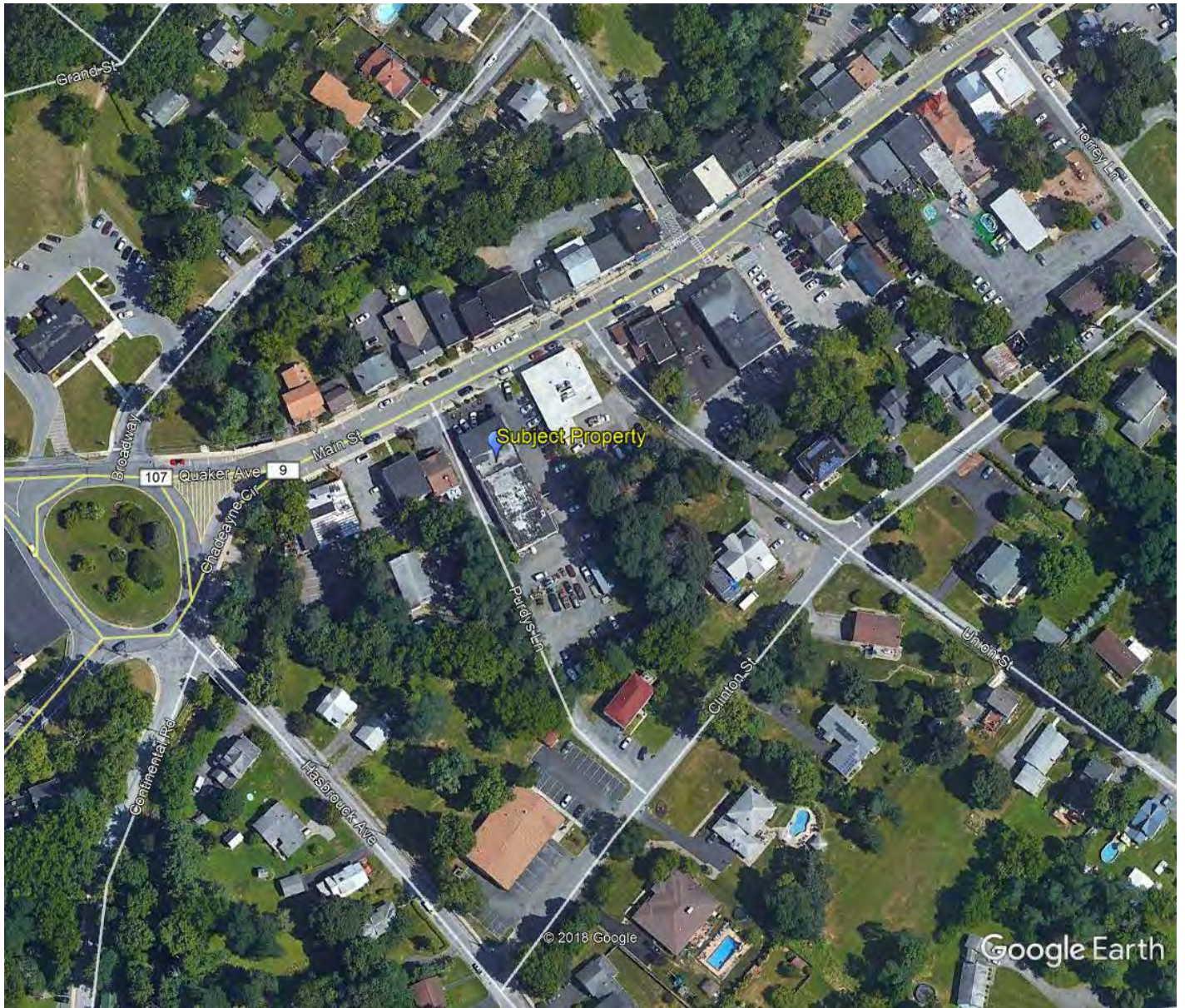
Attachments:

- A Site Location Map
- B Fieldwork Map
- C Petroleum Compounds in Soil Map
- D VOCs in Groundwater Map
- E Photograph Log
- F Data Tables
- G Laboratory Reports
- H Soil Disposal Documentation

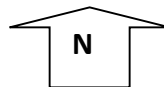


**ATTACHMENT A**

***Site Location Map***



**Site Location Map**  
317 Main Street  
Cornwall, New York



File No: SC18035.40

July 2018

Attachment A

**ATTACHMENT B**

***Fieldwork Map***





All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

### Fieldwork Map

317 Main Street  
Cornwall, New York

**Legend:**

- excavation area boundary
- ⊕ monitoring well location
- soil sampling location
- ∅ soil vapor sampling location

WCD File: SC18035.40

July 2018

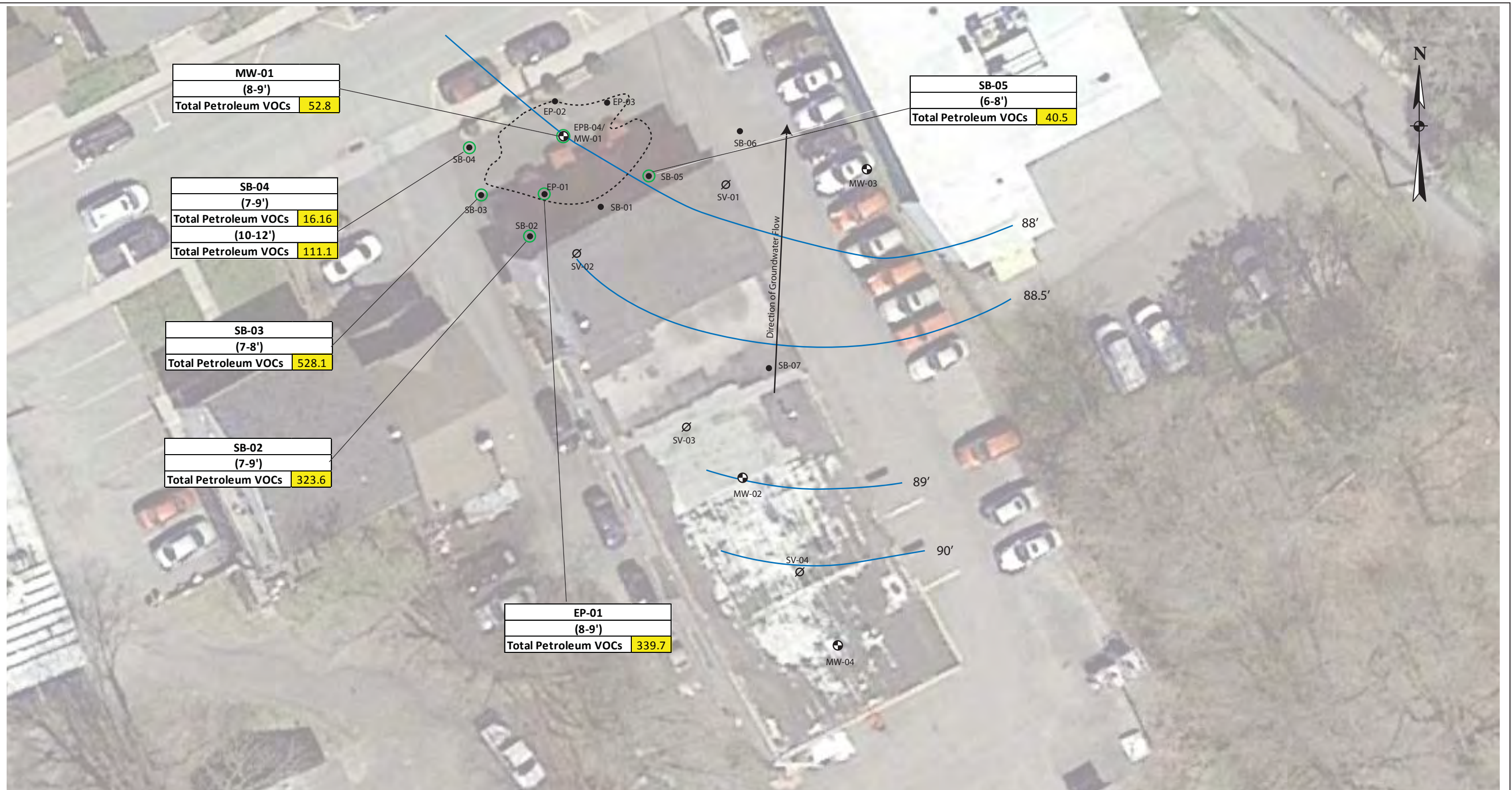
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Attachment B

**ATTACHMENT C**

***Petroleum Compounds in Soil Map***






Legend:

-----	excavation area boundary	—	contour lines
⊕	monitoring well location		
●	soil sampling location		
∅	soil vapor sampling location		
○	field evidence of contamination and petroleum VOCs above NYSDEC soil cleanup standards		

all data in ppm

### Petroleum VOCs in Soil

317 Main Street Cornwall, New York	 <small>A GALLAGHER BASSETT COMPANY</small>	WCD File: SC18035.40
Not to scale		July 2018
Attachment C		

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

**ATTACHMENT D**

***VOCs in Groundwater Map***



MW-01	
1,2,4-trimethylbenzene	280
1,3,5-trimethylbenzene	16
Benzene	420
Ethylbenzene	1,000
Isopropylbenzene	69
n-butylbenzene	17
n-propylbenzene	160
o-xylene	43
P-&m-xylenes	270
sec-butylbenzene	9.6
Toluene	46
Xylenes, total	310
Total Petroleum compounds	2,498.60
Total VOCs	2,579.25

MW-02	
methyl tert-butyl ether (MTBE)	390
Total Petroleum compounds	391.06
Total VOCs	607.35

MW-03	
1,2,4-trimethylbenzene	56
1,3,5-trimethylbenzene	16
Ethylbenzene	26
n-propylbenzene	14
P-&m-xylenes	26
Xylenes, total	29
Total Petroleum compounds	235.49
Total VOCs	248.35

MW-04	
Total Petroleum compounds	1.10
Total VOCs	4.02

**Legend:**

- excavation area boundary
- ⊕ monitoring well location
- soil sampling location
- ∅ soil vapor sampling location
- contour lines
- concentrations above AWQS
- detected concentrations
- all data in ppb

All feature locations are approximate. This map is intended as a schematic to be used in conjunction with the associated report, and it should not be relied upon as a survey for planning or other activities.

## VOCs in Groundwater

317 Main Street  
Cornwall, New York

WCD File: SC18035.40	
Not to scale	
July 2018	Attachment D

**ATTACHMENT E**

***Photograph Log***





1. Looking southeast across former showroom at the front of on-site building; soil vapor samples SV-01 and SV-02 were collected along the norther wall



2. Location of soil vapor sample SV-03 in the central portion of the building within the space formerly used for automobile servicing



- 3. Southern end of the rear portion of building, formerly used for automobile servicing; soil vapor sample SV-04 was collected in this portion of the building**



- 4. Looking east across the proposed UST excavation area with onsite GPR mark-out noted in pink, blue and red; active gas line in driveway was marked by utility company in gold**





5. Looking west/northwest across the proposed UST excavation area with GPR mark-outs showing boundaries of concrete slab, abandoned gas line, water supply line, wastewater/sewer and gas lines



6. Excavator removing and segregating asphalt and concrete from excavation area



7. North side of excavation area showing stained soil below lamppost footing, large boulders and groundwater



8. Northwest side of excavation area with stained soil, groundwater exhibiting a slight sheen and large boulders





- 9. Initial excavation along the northern side of the site at Main Street; stained soil**



- 10. Test pit at western side of excavation area between the wastewater/sewer line and active gas line**





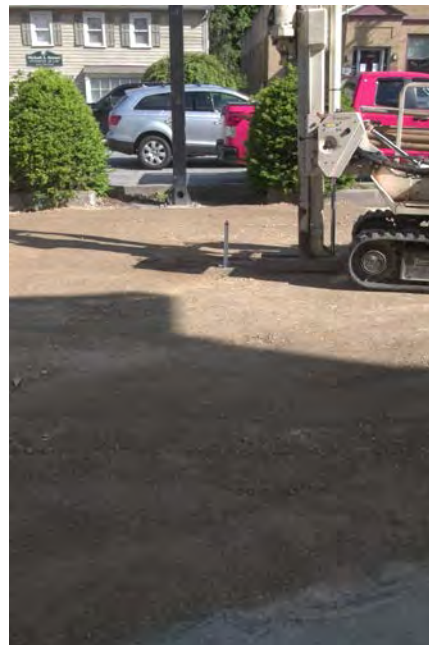
11. Western edge of excavation area; further work was impeded by the presence of large boulders and subsurface utility lines



12. Looking southwest across excavation area.



**13. Looking northwest across excavation area**



**14. Geoprobe rig at MW-01 within the excavation area in the vicinity of former gasoline USTs.**





15. Oily brown staining/product encountered in SB-04 at 10-12' bsg.



16. Looking west at MW-02 within the central portion of the building used for automobile servicing.



**17. Delivery and placement of clean fill for excavation area**



**18. Looking northwest across excavation area after being backfilled with clean fill and compacted**





- 19. Petroleum impacted soil stockpiled on plastic ready to be loaded for off-site disposal at an approved repository**



- 20. Loading petroleum impacted soil for off-site disposal**

**ATTACHMENT F**

***Data Tables***

**Table 1: VOCs in Soil Vapor**  
 NYSDEC Spill #: 18-01592

Sample ID Sample Date Dilution Factor U= Not Detected ≥ value	SV-01		SV-02		SV-03		SV-04	
	(2018-05-22)		(2018-05-22)		(2018-05-22)		(2018-05-22)	
	1.396		1.589		13.4		15.34	
VOCs, TO-15	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	0.96	U	1.1	U	0.92	U	1.1	U
1,1,1-Trichloroethane	4.4	D	0.87	U	8.8	D	7.1	D
1,1,2,2-Tetrachloroethane	0.96	U	1.1	U	0.92	U	1.1	U
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1	U	1.2	U	1	U	1.2	U
1,1,2-Trichloroethane	0.76	U	0.87	U	0.73	U	0.84	U
1,1-Dichloroethane	0.57	U	0.64	U	0.54	U	0.62	U
1,1-Dichloroethene	0.55	U	0.63	U	0.53	U	0.61	U
1,2,4-Trichlorobenzene	1	U	1.2	U	0.99	U	27	D
1,2,4-Trimethylbenzene	0.69	U	2	D	13	D	26	D
1,2-Dibromoethane	1.1	U	1.2	U	1	U	1.2	U
1,2-Dichlorobenzene	0.84	U	0.96	U	0.81	U	0.92	U
1,2-Dichloroethane	0.56	U	0.64	U	0.54	U	0.62	U
1,2-Dichloropropane	0.65	U	0.73	U	0.62	U	0.71	U
1,2-Dichlorotetrafluoroethane	0.98	U	1.1	U	0.94	U	1.1	U
1,3,5-Trimethylbenzene	0.69	U	0.78	D	7.8	D	18	D
1,3-Butadiene	0.93	U	1.1	U	0.89	U	1	U
1,3-Dichlorobenzene	0.84	U	0.96	U	0.81	U	0.92	U
1,3-Dichloropropane	0.65	U	0.73	U	0.62	U	0.71	U
1,4-Dichlorobenzene	0.84	U	0.96	U	0.81	U	0.92	U
1,4-Dioxane	1	U	1.1	U	0.97	U	1.1	U
2-Butanone	10	D	16	D	17	D	18	D
2-Hexanone	1.1	U	4.6	D	4.7	D	8.1	D
3-Chloropropene	2.2	U	2.5	U	2.1	U	2.4	U
4-Methyl-2-pentanone	0.57	U	4.6	D	5.8	D	7	D
Acetone	18	D	37	D	120	D	470	D
Acrylonitrile	0.3	U	0.34	U	0.29	U	0.33	U
Benzene	1.2	D	2	D	20	D	16	D
Benzyl chloride	0.72	U	0.82	U	0.69	U	0.79	U
Bromodichloromethane	8.6	D	1.1	U	0.9	U	1	U
Bromoform	1.4	U	1.6	U	1.4	U	1.6	U
Bromomethane	0.54	U	0.62	U	0.52	U	0.6	U
Carbon disulfide	0.43	U	0.49	U	0.71	D	1.8	D
Carbon tetrachloride	0.22	U	0.3	D	0.25	D	0.24	U
Chlorobenzene	0.64	U	0.73	U	0.62	U	0.71	U
Chloroethane	0.37	U	0.42	U	0.35	U	0.4	U
Chloroform	110	D	0.93	D	0.65	U	1.1	D
Chloromethane	0.29	U	0.33	D	0.28	D	0.35	D
cis-1,2-Dichloroethene	0.55	U	0.63	U	0.53	U	1.6	D
cis-1,3-Dichloropropene	0.63	U	0.72	U	0.61	U	0.7	U
Cyclohexane	0.48	U	0.77	D	1	D	3.5	D
Dibromochloromethane	1.2	U	1.4	U	1.1	U	1.3	U
Dichlorodifluoromethane	2.5	D	2.7	D	2.1	D	5.8	D
Ethyl Acetate	1	U	1.5	D	1.9	D	2.4	D
Ethylbenzene	4.6	D	4.3	D	860	D	1,400	D
Hexachlorobutadiene	1.5	U	1.7	U	1.4	U	1.6	U
Isopropanol	12	D	23	D	1.4	D	15	D
Methyl Methacrylate	0.57	U	3.8	D	0.55	U	0.63	U
Methyl tert butyl ether	0.5	U	0.57	U	9.6	D	43	D
Methylene chloride	8	D	18	D	5.6	D	17	D
Naphthalene	12	D	11	D	18	D	27	D
n-Heptane	0.57	U	1.3	D	18	D	13	D
n-Hexane	1.9	D	1.6	D	2.7	D	7.9	D
o-Xylene	3.5	D	3.7	D	500	D	670	D
p/m-Xylene	11	D	12	D	2,600	D	4,400	D
p-Ethyltoluene	2	D	2.4	D	19	D	49	D
Propylene	0.79	D	3.3	D	4	D	11	D
Styrene	0.59	U	0.81	D	0.57	U	0.65	U
Tetrachloroethene	99	D	9.7	D	450	D	490	D
Tetrahydrofuran	0.82	U	0.94	U	0.79	U	38	D
Toluene	7.7	D	9.6	D	1,000	D	140	D
trans-1,2-Dichloroethene	0.55	U	0.63	U	0.53	U	0.61	U
trans-1,3-Dichloropropene	0.63	U	0.72	U	0.61	U	0.7	U
Trichloroethene	2.3	D	0.34	D	0.79	D	19	D
Trichlorofluoromethane	2.4	D	1.5	D	1.5	D	1.9	D
Vinyl acetate	0.49	U	0.56	U	0.47	U	0.54	U
Vinyl bromide	0.61	U	0.7	U	0.59	U	0.67	U
Vinyl chloride	0.36	U	0.41	U	0.34	U	0.39	U
TOTAL BTEX	28		31.6		4,980		6,626	

Detected concentrations  
 Relatively elevated concentrations

Notes: NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank



**Table 2: Petroleum Compounds in Soil Excavation Endpoint Samples**

NYSDEC Spill No. : #18-01592

WCD File: SC18035



All data in mg/Kg (ppm)			Sample ID		EP-01		EP-02		EP-03		MW-01	
U= Not Detected ≥ indicated value			Sample Date		5/31/2018		5/31/2018		5/31/2018		6/6/2018	
Data above SCOs shown in <b>Bold</b>			Dilution Factor		2000		2000		2000		1	
VOCs, 8260	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,2,4-Trimethylbenzene	3.6	52	<b>150</b>	D	0.0054		0.0029	U	20	D		
1,3,5-Trimethylbenzene	8.4	52	<b>46</b>	D	0.0058		0.0029	U	0.6	JD		
Benzene	0.06	4.8	1.6	U	0.0021	U	0.0029	U	0.32	U		
Ethyl Benzene	1	41	<b>14</b>	D	0.0021	U	0.0029	U	<b>11</b>	D		
Isopropylbenzene	2.3	100	<b>6</b>	D	0.0021	U	0.0029	U	<b>1.4</b>	D		
Methyl tert-butyl ether (MTBE)	0.93	100	1.6	U	0.0021	U	0.0029	U	0.32	U		
n-Butylbenzene	12	100	<b>19</b>	D	0.0042	J	0.0029	U	<b>5.7</b>	BD		
n-Propylbenzene	3.9	100	<b>19</b>	D	0.0021	U	0.0029	U	<b>2</b>	D		
Naphthalene	12	100	<b>22</b>	D	0.0021	U	0.0029	U	<b>5.2</b>	D		
o-Xylene	0.26	100	<b>6.3</b>	D	0.0021	U	0.0029	U	0.32	U		
p- & m- Xylenes	0.26	100	<b>51</b>	D	0.0043	U	0.0059	U	<b>5.3</b>	D		
p-Isopropyltoluene	10	NA	<b>2.1</b>	JD	0.0021	U	0.0029	U	<b>0.64</b>	D		
sec-Butylbenzene	11	100	<b>3.6</b>	D	0.0021	U	0.0029	U	<b>0.76</b>	D		
tert-Butylbenzene	5.9	100	1.6	U	0.0021	U	0.0029	U	0.32	U		
Toluene	0.7	100	1.6	U	0.0021	U	0.0029	U	0.32	U		
Xylenes, Total	0.26	100	<b>58</b>	D	0.0064	U	0.0088	U	<b>5.5</b>	D		
Total Petroleum VOCS			<b>346.1</b>		<b>0.0428</b>		<b>0.0465</b>		<b>54.08</b>			

			Sample ID		EP-01		EP-02		EP-03		MW-01	
			Sample Date		5/31/2018		5/31/2018		5/31/2018		6/6/2018	
			Dilution Factor		1 2		2		2		2	
SVOCs, 8270	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Acenaphthene	20	100	NA	NA	NA	NA	NA	NA	0.047	U		
Acenaphthylene	100	100	NA	NA	NA	NA	NA	NA	0.047	U		
Anthracene	100	100	NA	NA	NA	NA	NA	NA	0.047	U		
Benzo(a)anthracene	1	1	NA	NA	NA	NA	NA	NA	0.047	U		
Benzo(a)pyrene	1	1	NA	NA	NA	NA	NA	NA	0.047	U		
Benzo(b)fluoranthene	1	1	NA	NA	NA	NA	NA	NA	0.047	U		
Benzo(g,h,i)perylene	100	100	NA	NA	NA	NA	NA	NA	0.047	U		
Benzo(k)fluoranthene	0.8	3.9	NA	NA	NA	NA	NA	NA	0.047	U		
Chrysene	1	3.9	NA	NA	NA	NA	NA	NA	0.047	U		
Dibenzo(a,h)anthracene	0.33	0.33	NA	NA	NA	NA	NA	NA	0.047	U		
Fluoranthene	100	100	NA	NA	NA	NA	NA	NA	0.047	U		
Fluorene	30	100	NA	NA	NA	NA	NA	NA	0.047	U		
Indeno(1,2,3-cd)pyrene	0.5	0.5	NA	NA	NA	NA	NA	NA	0.047	U		
Naphthalene	12	100	NA	NA	NA	NA	NA	NA	<b>1.9</b>	D		
Phenanthrene	100	100	NA	NA	NA	NA	NA	NA	<b>0.14</b>	D		

Analyte Detected

Analyte Above UUSCO

Analyte Above RRUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: VOCs in Soils**  
**NYSDEC Spill No.: 18-01592**  
**WCD File: SC18035**



All data in mg/Kg (ppm)		Sample ID	EP-01		EP-02		EP-03		MW-01	
U= Not Detected ≥ indicated value			5/31/2018		5/31/2018		5/31/2018		6/6/2018	
Data above SCOs shown in Bold			2000		2000		2000		100	
VOCs, 8260	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	NA	NA		NA		NA		NA	
1,1,1-Trichloroethane	0.68	100	NA		NA		NA		NA	
1,1,2,2-Tetrachloroethane	NA	NA	NA		NA		NA		NA	
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA		NA		NA		NA	
1,1,2-Trichloroethane	NA	NA	NA		NA		NA		NA	
1,1-Dichloroethane	0.27	26	NA		NA		NA		NA	
1,1-Dichloroethylene (1,1-DCE)	0.33	100	NA		NA		NA		NA	
1,2,3-Trichlorobenzene	NA	NA	NA		NA		NA		NA	
1,2,3-Trichloropropane	NA	NA	NA		NA		NA		NA	
1,2,4-Trichlorobenzene	NA	NA	NA		NA		NA		NA	
1,2,4-Trimethylbenzene	3.6	52	150	D	0.0054		0.0029	U	20	D
1,2-Dibromo-3-chloropropane	NA	NA	NA		NA		NA		NA	
1,2-Dibromoethane	NA	NA	NA		NA		NA		NA	
1,2-Dichlorobenzene	1.1	100	NA		NA		NA		NA	
1,2-Dichloroethane	0.02	3.1	NA		NA		NA		NA	
1,2-Dichloropropane	NA	NA	NA		NA		NA		NA	
1,3,5-Trimethylbenzene	8.4	52	46	D	0.0058		0.0029	U	0.6	JD
1,3-Dichlorobenzene	2.4	49	NA		NA		NA		NA	
1,4-Dichlorobenzene	1.8	13	NA		NA		NA		NA	
1,4-Dioxane	0.1	13	NA		NA		NA		NA	
2-Butanone (MEK)	0.12	100	NA		NA		NA		NA	
2-Hexanone	NA	NA	NA		NA		NA		NA	
4-Methyl-2-pentanone	NA	NA	NA		NA		NA		NA	
Acetone	0.05	100	NA		NA		NA		NA	
Acrolein	NA	NA	NA		NA		NA		NA	
Acrylonitrile	NA	NA	NA		NA		NA		NA	
Benzene	0.06	4.8	1.6	U	0.0021	U	0.0029	U	0.32	U
Bromochloromethane	NA	NA	NA		NA		NA		NA	
Bromodichloromethane	NA	NA	NA		NA		NA		NA	
Bromoform	NA	NA	NA		NA		NA		NA	
Bromomethane	NA	NA	NA		NA		NA		NA	
Carbon disulfide	NA	NA	NA		NA		NA		NA	
Carbon tetrachloride	0.76	2.4	NA		NA		NA		NA	
Chlorobenzene	1.1	100	NA		NA		NA		NA	
Chloroethane	NA	NA	NA		NA		NA		NA	
Chloroform	0.37	49	NA		NA		NA		NA	
Chloromethane	NA	NA	NA		NA		NA		NA	
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	NA		NA		NA		NA	
cis-1,3-Dichloropropylene	NA	NA	NA		NA		NA		NA	
Cyclohexane	NA	NA	NA		NA		NA		NA	
Dibromochloromethane	NA	NA	NA		NA		NA		NA	
Dibromomethane	NA	NA	NA		NA		NA		NA	
Dichlorodifluoromethane	NA	NA	NA		NA		NA		NA	
Ethyl Benzene	1	41	14	D	0.0021	U	0.0029	U	11	D
Hexachlorobutadiene	NA	NA	NA		NA		NA		NA	
Isopropylbenzene	2.3	100	6	D	0.0021	U	0.0029	U	1.4	D
Methyl acetate	NA	NA	NA		NA		NA		NA	
Methyl tert-butyl ether (MTBE)	0.93	100	1.6	U	0.0021	U	0.0029	U	0.32	U
Methylcyclohexane	NA	NA	NA		NA		NA		NA	
Methylene chloride	0.05	100	NA		NA		NA		NA	
n-Butylbenzene	12	100	19	D	0.0042	J	0.0029	U	5.7	BD
n-Propylbenzene	3.9	100	19	D	0.0021	U	0.0029	U	2	D
o-Xylene	0.26	100	22	D	0.0021	U	0.0029	U	5.2	D
p- & m- Xylenes	0.26	100	6.3	D	0.0021	U	0.0029	U	0.32	U
p-Isopropyltoluene	10	NA	51	D	0.0043	U	0.0059	U	5.3	D
sec-Butylbenzene	11	100	2.1	JD	0.0021	U	0.0029	U	0.64	D
Styrene	NA	NA	3.6	D	0.0021	U	0.0029	U	0.76	D
tert-Butyl alcohol (TBA)	NA	NA	NA		NA		NA		NA	
tert-Butylbenzene	5.9	100	1.6	U	0.0021	U	0.0029	U	0.32	U
Tetrachloroethylene (PCE)	1.3	19	NA		NA		NA		NA	
Toluene	0.7	100	1.6	U	0.0021	U	0.0029	U	0.32	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	NA		NA		NA		NA	
trans-1,3-Dichloropropylene	NA	NA	NA		NA		NA		NA	
Trichloroethylene (TCE)	0.47	21	NA		NA		NA		NA	
Trichlorofluoromethane	NA	NA	NA		NA		NA		NA	
Vinyl chloride (VC)	0.02	0.9	NA		NA		NA		NA	
Xylenes, Total	0.26	100	58	D	0.0064	U	0.0088	U	5.5	D

Analyte Detected  
Analyte Above UUSCO  
Analyte Above RRUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: VOCs in Soils**  
**NYSDEC Spill No.: 18-01592**  
**WCD File: SC18035**



All data in mg/Kg (ppm)		Sample ID		MW-02		MW-03		MW-04		SB-01 8-9	
U= Not Detected ≥ indicated value		Sample Date		6/6/2018		6/6/2018		6/6/2018		6/6/2018	
Data above SCOs shown in Bold		Dilution Factor		1		1		1		1	
VOCs, 8260	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,1,1,2-Tetrachloroethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,1,1-Trichloroethane	0.68	100	0.0019	U	0.0025	U	0.002	U	NA		
1,1,2,2-Tetrachloroethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,1,2-Trichloroethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,1-Dichloroethane	0.27	26	0.0019	U	0.0025	U	0.002	U	NA		
1,1-Dichloroethylene (1,1-DCE)	0.33	100	0.0019	U	0.0025	U	0.002	U	NA		
1,2,3-Trichlorobenzene	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,2,3-Trichloropropane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,2,4-Trichlorobenzene	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,2,4-Trimethylbenzene	3.6	52	0.0019	U	0.0025	U	0.002	U	0.074		
1,2-Dibromo-3-chloropropane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,2-Dibromoethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,2-Dichlorobenzene	1.1	100	0.0019	U	0.0025	U	0.002	U	NA		
1,2-Dichloroethane	0.02	3.1	0.0019	U	0.0025	U	0.002	U	NA		
1,2-Dichloropropane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
1,3,5-Trimethylbenzene	8.4	52	0.0019	U	0.0025	U	0.002	U	0.0078		
1,3-Dichlorobenzene	2.4	49	0.0019	U	0.0025	U	0.002	U	NA		
1,4-Dichlorobenzene	1.8	13	0.0019	U	0.0025	U	0.002	U	NA		
1,4-Dioxane	0.1	13	0.039	U	0.05	U	0.041	U	NA		
2-Butanone (MEK)	0.12	100	0.0019	U	0.0037	J	0.002	U	NA		
2-Hexanone	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
4-Methyl-2-pentanone	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Acetone	0.05	100	0.0091		0.021		0.011		NA		
Acrolein	NA	NA	0.0039	U	0.005	U	0.0041	U	NA		
Acrylonitrile	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Benzene	0.06	4.8	0.0019	J	0.0025	U	0.002	U	0.0069		
Bromochloromethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Bromodichloromethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Bromoform	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Bromomethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Carbon disulfide	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Carbon tetrachloride	0.76	2.4	0.0019	U	0.0025	U	0.002	U	NA		
Chlorobenzene	1.1	100	0.0019	U	0.0025	U	0.002	U	NA		
Chloroethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Chloroform	0.37	49	0.0019	U	0.0025	U	0.002	U	NA		
Chloromethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	0.0019	U	0.0025	U	0.002	U	NA		
cis-1,3-Dichloropropylene	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Cyclohexane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Dibromochloromethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Dibromomethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Dichlorodifluoromethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Ethyl Benzene	1	41	0.0019	U	0.0025	U	0.002	U	0.035		
Hexachlorobutadiene	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Isopropylbenzene	2.3	100	0.0019	U	0.0025	U	0.002	U	0.004	J	
Methyl acetate	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Methyl tert-butyl ether (MTBE)	0.93	100	0.0019	U	0.0025	U	0.002	U	0.0022	U	
Methylcyclohexane	NA	NA	0.0019	U	0.012		0.002	U	NA		
Methylene chloride	0.05	100	0.0039	U	0.005	U	0.0041	U	NA		
n-Butylbenzene	12	100	0.0019	U	0.0025	J	0.015		0.041	B	
n-Propylbenzene	3.9	100	0.0019	U	0.0031	J	0.002	U	0.0031	J	
o-Xylene	0.26	100	0.0019	U	0.0025	U	0.002	U	0.013		
p- & m- Xylenes	0.26	100	0.0039	U	0.005	U	0.0041	U	0.0022	U	
p-Isopropyltoluene	10	NA	0.0019	U	0.0025	U	0.002	U	0.072		
sec-Butylbenzene	11	100	0.0019	U	0.0025	U	0.0048		0.0022	U	
Styrene	NA	NA	0.0019	U	0.0025	U	0.002	U	0.0022	U	
tert-Butyl alcohol (TBA)	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
tert-Butylbenzene	5.9	100	0.0019	U	0.0025	U	0.002	U	0.0022	U	
Tetrachloroethylene (PCE)	1.3	19	0.0019	U	0.0025	U	0.002	U	NA		
Toluene	0.7	100	0.0019	U	0.0025	U	0.002	U	0.0022	U	
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	0.0019	U	0.0025	U	0.002	U	NA		
trans-1,3-Dichloropropylene	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Trichloroethylene (TCE)	0.47	21	0.0019	U	0.0025	U	0.002	U	NA		
Trichlorofluoromethane	NA	NA	0.0019	U	0.0025	U	0.002	U	NA		
Vinyl chloride (VC)	0.02	0.9	0.0019	U	0.0025	U	0.002	U	NA		
Xylenes, Total	0.26	100	0.0058	U	0.0075	U	0.0061	U	0.073		

Analyte Detected  
Analyte Above UUSCO  
Analyte Above RRUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: VOCs in Soils**  
**NYSDEC Spill No.: 18-01592**  
**WCD File: SC18035**



All data in mg/Kg (ppm)		Sample ID	SB-02 7-9		SB-03 7-8		SB-04 7-9		SB-04 10-12	
U= Not Detected ≥ indicated value		Sample Date	6/6/2018		6/6/2018		6/6/2018		6/6/2018	
Data above SCOs shown in Bold		Dilution Factor	500		1000		100		1000	
VOCs, 8260	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	NA	NA		NA		0.25	U	0.25	U
1,1,1-Trichloroethane	0.68	100	NA		NA		0.25	U	0.25	U
1,1,2,2-Tetrachloroethane	NA	NA	NA		NA		0.25	U	0.25	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA		NA		0.25	U	0.25	U
1,1,2-Trichloroethane	NA	NA	NA		NA		0.25	U	3	D
1,1-Dichloroethane	0.27	26	NA		NA		0.25	U	0.25	U
1,1-Dichloroethylene (1,1-DCE)	0.33	100	NA		NA		0.25	U	0.25	U
1,2,3-Trichlorobenzene	NA	NA	NA		NA		0.25	U	0.25	U
1,2,3-Trichloropropane	NA	NA	NA		NA		0.25	U	0.25	U
1,2,4-Trichlorobenzene	NA	NA	NA		NA		0.25	U	0.25	U
1,2,4-Trimethylbenzene	3.6	52	110	D	170	D	0.25	U	38	D
1,2-Dibromo-3-chloropropane	NA	NA	NA		NA		0.25	U	0.25	U
1,2-Dibromoethane	NA	NA	NA		NA		0.25	U	0.25	U
1,2-Dichlorobenzene	1.1	100	NA		NA		0.25	U	0.25	U
1,2-Dichloroethane	0.02	3.1	NA		NA		0.25	U	0.25	U
1,2-Dichloropropane	NA	NA	NA		NA		0.25	U	0.25	U
1,3,5-Trimethylbenzene	8.4	52	32	D	56	D	0.25	U	12	D
1,3-Dichlorobenzene	2.4	49	NA		NA		0.25	U	0.25	U
1,4-Dichlorobenzene	1.8	13	NA		NA		0.25	U	0.25	U
1,4-Dioxane	0.1	13	NA		NA		4.9	U	5.1	U
2-Butanone (MEK)	0.12	100	NA		NA		0.25	U	0.25	U
2-Hexanone	NA	NA	NA		NA		0.25	U	0.25	U
4-Methyl-2-pentanone	NA	NA	NA		NA		0.25	U	0.25	U
Acetone	0.05	100	NA		NA		0.49	U	0.51	U
Acrolein	NA	NA	NA		NA		0.49	U	0.51	U
Acrylonitrile	NA	NA	NA		NA		0.25	U	0.25	U
Benzene	0.06	4.8	0.17		0.21		0.25	U	0.25	U
Bromochloromethane	NA	NA	NA		NA		0.25	U	0.25	U
Bromodichloromethane	NA	NA	NA		NA		0.25	U	0.25	U
Bromoform	NA	NA	NA		NA		0.25	U	0.25	U
Bromomethane	NA	NA	NA		NA		0.25	U	0.25	U
Carbon disulfide	NA	NA	NA		NA		0.25	U	0.25	U
Carbon tetrachloride	0.76	2.4	NA		NA		0.25	U	0.25	U
Chlorobenzene	1.1	100	NA		NA		0.25	U	0.25	U
Chloroethane	NA	NA	NA		NA		0.25	U	0.25	U
Chloroform	0.37	49	NA		NA		0.25	U	0.25	U
Chloromethane	NA	NA	NA		NA		0.25	U	0.25	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	NA		NA		0.25	U	0.25	U
cis-1,3-Dichloropropylene	NA	NA	NA		NA		0.25	U	0.25	U
Cyclohexane	NA	NA	NA		NA		0.25	U	0.25	U
Dibromochloromethane	NA	NA	NA		NA		0.25	U	0.25	U
Dibromomethane	NA	NA	NA		NA		0.25	U	0.25	U
Dichlorodifluoromethane	NA	NA	NA		NA		0.25	U	0.25	U
Ethyl Benzene	1	41	31	D	55	D	1.2	D	8.4	D
Hexachlorobutadiene	NA	NA	NA		NA		0.25	U	0.25	U
Isopropylbenzene	2.3	100	4.8	D	7.5	D	1.6	D	3.8	D
Methyl acetate	NA	NA	NA		NA		0.25	U	0.25	U
Methyl tert-butyl ether (MTBE)	0.93	100	0.0039	U	0.0033	U	0.25	U	0.25	U
Methylcyclohexane	NA	NA	NA		NA		16	D	20	D
Methylene chloride	0.05	100	NA		NA		0.49	U	0.51	U
n-Butylbenzene	12	100	0.53		22	BD	3.8	D	7.4	D
n-Propylbenzene	3.9	100	7.5	D	11	D	5.2	D	13	D
o-Xylene	0.26	100	16	D	26	D	0.25	U	1	D
p- & m- Xylenes	0.26	100	3.4	D	0.21		0.49	U	17	D
p-Isopropyltoluene	10	NA	120	D	180	D	0.46	JD	1.3	D
sec-Butylbenzene	11	100	1.3	D	0.16		1.8	D	2.6	D
Styrene	NA	NA	0.27		0.18		0.25	U	0.25	U
tert-Butyl alcohol (TBA)	NA	NA	NA		NA		0.25	U	0.25	U
tert-Butylbenzene	5.9	100	0.0039	U	0.0033	U	0.25	U	0.25	U
Tetrachloroethylene (PCE)	1.3	19	NA		NA		0.25	U	0.25	U
Toluene	0.7	100	0.053		0.053		0.25	U	0.25	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	NA		NA		0.25	U	0.25	U
trans-1,3-Dichloropropylene	NA	NA	NA		NA		0.25	U	0.25	U
Trichloroethylene (TCE)	0.47	21	NA		NA		0.25	U	0.25	U
Trichlorofluoromethane	NA	NA	NA		NA		0.25	U	0.25	U
Vinyl chloride (VC)	0.02	0.9	NA		NA		0.25	U	0.25	U
Xylenes, Total	0.26	100	120	D	180	D	0.74	U	18	D

Analyte Detected  
Analyte Above UUSCO  
Analyte Above RRUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 3: VOCs in Soils**  
**NYSDEC Spill No.: 18-01592**  
**WCD File: SC18035**



All data in mg/Kg (ppm)		Sample ID	SB-05 6-8		SB-06 7-9		SB-07 4-5	
U= Not Detected ≥ indicated value		Sample Date	6/6/2018		6/6/2018		6/6/2018	
Data above SCOs shown in <b>Bold</b>		Dilution Factor	200		1		1	
VOCs, 8260	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	NA	NA		NA		0.0022	U
1,1,1-Trichloroethane	0.68	100	NA		NA		0.0022	U
1,1,2,2-Tetrachloroethane	NA	NA	NA		NA		0.0022	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA		NA		0.0022	U
1,1,2-Trichloroethane	NA	NA	NA		NA		0.0022	U
1,1-Dichloroethane	0.27	26	NA		NA		0.0022	U
1,1-Dichloroethylene (1,1-DCE)	0.33	100	NA		NA		0.0022	U
1,2,3-Trichlorobenzene	NA	NA	NA		NA		0.0022	U
1,2,3-Trichloropropane	NA	NA	NA		NA		0.0022	U
1,2,4-Trichlorobenzene	NA	NA	NA		NA		0.0022	U
1,2,4-Trimethylbenzene	3.6	52	21	D	0.0019	U	0.0022	U
1,2-Dibromo-3-chloropropane	NA	NA	NA		NA		0.0022	U
1,2-Dibromoethane	NA	NA	NA		NA		0.0022	U
1,2-Dichlorobenzene	1.1	100	NA		NA		0.0022	U
1,2-Dichloroethane	0.02	3.1	NA		NA		0.0022	U
1,2-Dichloropropane	NA	NA	NA		NA		0.0022	U
1,3,5-Trimethylbenzene	8.4	52	4.1	D	0.0019	U	0.0022	U
1,3-Dichlorobenzene	2.4	49	NA		NA		0.0022	U
1,4-Dichlorobenzene	1.8	13	NA		NA		0.0022	U
1,4-Dioxane	0.1	13	NA		NA		0.043	U
2-Butanone (MEK)	0.12	100	NA		NA		0.0022	U
2-Hexanone	NA	NA	NA		NA		0.0022	U
4-Methyl-2-pentanone	NA	NA	NA		NA		0.0022	U
Acetone	0.05	100	NA		NA		0.012	
Acrolein	NA	NA	NA		NA		0.0043	U
Acrylonitrile	NA	NA	NA		NA		0.0022	U
Benzene	0.06	4.8	0.53	JD	0.0019	U	0.0022	U
Bromochloromethane	NA	NA	NA		NA		0.0022	U
Bromodichloromethane	NA	NA	NA		NA		0.0022	U
Bromoform	NA	NA	NA		NA		0.0022	U
Bromomethane	NA	NA	NA		NA		0.0022	U
Carbon disulfide	NA	NA	NA		NA		0.0022	U
Carbon tetrachloride	0.76	2.4	NA		NA		0.0022	U
Chlorobenzene	1.1	100	NA		NA		0.0022	U
Chloroethane	NA	NA	NA		NA		0.0022	U
Chloroform	0.37	49	NA		NA		0.0022	U
Chloromethane	NA	NA	NA		NA		0.0022	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	100	NA		NA		0.0022	U
cis-1,3-Dichloropropylene	NA	NA	NA		NA		0.0022	U
Cyclohexane	NA	NA	NA		NA		0.0022	U
Dibromochloromethane	NA	NA	NA		NA		0.0022	U
Dibromomethane	NA	NA	NA		NA		0.0022	U
Dichlorodifluoromethane	NA	NA	NA		NA		0.0022	U
Ethyl Benzene	1	41	0.49	U	0.0019	U	0.0022	U
Hexachlorobutadiene	NA	NA	NA		NA		0.0022	U
Isopropylbenzene	2.3	100	2	D	0.0019	U	0.0022	U
Methyl acetate	NA	NA	NA		NA		0.0022	U
Methyl tert-butyl ether (MTBE)	0.93	100	0.49	U	0.0019	U	0.0022	U
Methylcyclohexane	NA	NA	NA		NA		0.0022	U
Methylene chloride	0.05	100	NA		NA		0.0052	JB
n-Butylbenzene	12	100	2.7	BD	0.0019	U	0.0022	U
n-Propylbenzene	3.9	100	2.8	D	0.0019	U	0.0022	U
o-Xylene	0.26	100	6.4	D	0.0019	U	0.0022	U
p- & m- Xylenes	0.26	100	0.49	U	0.0019	U	0.0043	U
p-Isopropyltoluene	10	NA	1	JD	0.0038	U	0.0022	U
sec-Butylbenzene	11	100	0.49	U	0.0019	U	0.0022	U
Styrene	NA	NA	0.94	JD	0.0019	U	0.0022	U
tert-Butyl alcohol (TBA)	NA	NA	NA		NA		0.0022	U
tert-Butylbenzene	5.9	100	0.49	U	0.0019	U	0.0022	U
Tetrachloroethylene (PCE)	1.3	19	NA		NA		0.0022	U
Toluene	0.7	100	0.49	U	0.0019	U	0.0022	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	100	NA		NA		0.0022	U
trans-1,3-Dichloropropylene	NA	NA	NA		NA		0.0022	U
Trichloroethylene (TCE)	0.47	21	NA		NA		0.0022	U
Trichlorofluoromethane	NA	NA	NA		NA		0.0022	U
Vinyl chloride (VC)	0.02	0.9	NA		NA		0.0022	U
Xylenes, Total	0.26	100	1.5	U	0.0057	U	0.0065	U

Analyte Detected  
Analyte Above UUSCO  
Analyte Above RRUSCO

Notes: SCOs based on NYSDEC Part 375-6.8 and CP-51 NA = not available  
Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**Table 4: VOCs in Groundwater**

NYSDEC Spill No. 18-01592

WCD File: SC18035



All data in µg/L (parts per billion, ppb) U= Not Detected > indicated value Data above AWQS shown in <b>Bold</b>	Sample ID	MW-01		MW-02		MW-03		MW-04	
	Sample Date	7/6/2018		7/6/2018		7/6/2018		7/6/2018	
	Dilution Factor	20		10		1		1	
	VOCs, #260	AWQS	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result
1,1,1,2-tetrachloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,1-trichloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2,2-tetrachloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-trichloro-1,2,2-trifluoroethane	5	0.2	U	0.2	U	0.2	U	0.2	U
1,1,2-trichloroethane	1	0.2	U	0.2	U	0.2	U	0.2	U
1,1-dichloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U
1,1-dichloroethylene (1,1-DCE)	5	0.2	U	0.2	U	0.2	U	0.2	U
1,2,3-trichlorobenzene	5	0.2	U	0.2	U	0.2	U	0.2	U
1,2,3-trichloropropane	0.04	0.2	U	0.2	U	0.2	U	0.2	U
1,2,4-trichlorobenzene	5	0.2	U	0.2	U	0.2	U	0.2	U
1,2,4-trimethylbenzene	5	<b>280</b>	D	0.2	U	<b>56</b>		0.2	U
1,2-dibromo-3-chloropropane	0.04	0.2	U	0.2	U	0.2	U	0.2	U
1,2-dibromoethane	5	0.2	U	0.2	U	0.2	U	0.2	U
1,2-dichlorobenzene	3	0.25	J	0.2	U	0.26	J	0.2	U
1,2-dichloroethane	0.6	0.2	U	0.2	U	0.2	U	0.44	J
1,2-dichloropropane	1	0.2	U	0.2	U	0.2	U	0.2	U
1,3,5-trimethylbenzene	5	<b>16</b>		0.2	U	<b>16</b>		0.2	U
1,3-dichlorobenzene	3	0.2	U	0.2	U	0.2	U	0.2	U
1,4-dichlorobenzene	3	0.2	U	0.2	U	0.2	U	0.2	U
1,4-dioxane	NA	40	U	140		40	U	40	U
2-butanone (MEK)	50	3		0.29	J	3.2		0.2	U
2-hexanone (MBK)	50	0.2	U	0.2	U	0.2	U	0.2	U
4-methyl-2-pentanone	NA	0.2	U	0.2	U	0.2	U	0.2	U
acetone	50	8.4		5		4.7		1	U
acrolein	5	0.2	U	0.2	U	0.2	U	0.2	U
acrylonitrile	5	0.2	U	0.2	U	0.2	U	0.2	U
benzene	1	<b>420</b>	D	0.24	J	0.75		0.2	U
bromochloromethane	5	0.2	U	0.2	U	0.2	U	0.2	U
bromodichloromethane	50	0.2	U	0.2	U	0.2	U	0.2	U
bromoform	50	0.2	U	0.2	U	0.2	U	0.2	U
bromomethane	5	0.2	U	0.2	U	0.2	U	0.2	U
carbon disulfide	NA	0.2	U	0.2	U	0.2	U	0.2	U
carbon tetrachloride	5	0.2	U	0.2	U	0.2	U	0.2	U
chlorobenzene	5	0.2	U	0.2	U	0.2	U	0.2	U
chloroethane	5	0.2	U	0.2	U	0.2	U	0.2	U
chloroform	7	0.2	U	0.2	U	0.2	U	0.2	U
chloromethane	5	0.2	U	0.2	U	0.2	U	0.2	U
cis-1,2-dichloroethylene (cis-DCE)	5	0.2	U	0.2	U	0.2	U	0.94	
cis-1,3-dichloropropylene	0.4	0.2	U	0.2	U	0.2	U	0.2	U
cyclohexane	NA	160		0.2	U	57		0.2	U
dibromochloromethane	5	0.2	U	0.2	U	0.2	U	0.2	U
dibromomethane	5	0.2	U	0.2	U	0.2	U	0.2	U
dichlorodifluoromethane	5	0.2	U	0.2	U	0.2	U	0.2	U
ethyl benzene	5	<b>1,000</b>	D	0.82		<b>26</b>		0.2	U
hexachlorobutadiene	0.5	0.2	U	0.2	U	0.2	U	0.2	U
isopropylbenzene	5	<b>69</b>		0.2	U	4.7		0.2	U
methyl acetate	NA	0.2	U	0.2	U	0.2	U	0.84	
methyl tert-butyl ether (MTBE)	10	0.2	U	<b>390</b>	D	0.2	U	0.2	U
methylcyclohexane	NA	75		0.2	U	31		0.2	U
methylene chloride	5	1	U	1	U	1	U	1	U
n-butylbenzene	5	<b>17</b>		0.2	U	3.3		0.29	J
n-propylbenzene	5	<b>160</b>	E	0.2	U	<b>14</b>		0.2	U
o-xylene (included in total xylenes)	5	<b>43</b>		0.2	U	2.3		0.2	U
p- & m- xylenes (included in total xylenes)	5	<b>270</b>	E	0.5	U	<b>26</b>		0.5	U
p-isopropyltoluene	5	5		0.2	U	0.67		0.2	U
sec-butylbenzene	5	<b>9.6</b>		0.2	U	1.4		0.81	
styrene	5	0.2	U	0.2	U	0.2	U	0.2	U
tert-butyl alcohol (TBA)	NA	0.5	U	71		0.5	U	0.5	U
tert-butylbenzene	5	0.2	U	0.2	U	0.2	U	0.27	J
tetrachloroethylene (PCE)	5	0.2	U	0.2	U	0.2	U	0.2	U
toluene	5	<b>46</b>		0.2	U	0.37	J	0.2	U
trans-1,2-dichloroethylene (trans-DCE)	5	0.2	U	0.2	U	0.2	U	0.2	U
trans-1,3-dichloropropylene	0.4	0.2	U	0.2	U	0.2	U	0.2	U
trichloroethylene (TCE)	5	0.2	U	0.2	U	0.2	U	0.22	J
trichlorofluoromethane	5	0.2	U	0.2	U	0.2	U	0.2	U
vinyl chloride (VC)	2	0.2	U	0.2	U	0.2	U	0.21	J
xylenes, total	5	<b>310</b>		0.6	U	<b>29</b>		0.6	U
<b>TOTAL petroleum compounds</b>		<b>2567.6</b>		<b>391.06</b>		<b>240.19</b>		<b>1.1</b>	
<b>TOTAL BTEX</b>		<b>1776</b>		<b>1.06</b>		<b>56.12</b>		<b>Not Detected</b>	
<b>TOTAL VOCs</b>		<b>2579.25</b>		<b>607.35</b>		<b>248.35</b>		<b>4.02</b>	

Detected concentrations  
**Concentrations above AWQS**

Notes: AWQS based on NYSDEC TOGS 1.1.1 (Class GA) NA = not available  
 Result Qualifiers: J = approximate E = estimated B = detected in blank D = diluted

**ATTACHMENT G**

***Laboratory Reports***





# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 07/16/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18G0262

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

Report Date: 07/16/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18G0262

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 July 09, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18G0262-01	MW-1-20180706	Water	07/06/2018	07/09/2018
18G0262-02	MW-2-20180706	Water	07/06/2018	07/09/2018
18G0262-03	MW-3-20180706	Water	07/06/2018	07/09/2018
18G0262-04	MW-4-20180706	Water	07/06/2018	07/09/2018

## **General Notes for York Project (SDG) No.: 18G0262**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 07/16/2018





### Sample Information

**Client Sample ID:** MW-1-20180706

**York Sample ID:** 18G0262-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0262	SC18035	Water	July 6, 2018 3:00 pm	07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>280</b>		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/13/2018 14:11	07/14/2018 01:06	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
95-50-1	<b>1,2-Dichlorobenzene</b>	<b>0.25</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>16</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
78-93-3	<b>2-Butanone</b>	<b>3.0</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS





### Sample Information

**Client Sample ID:** MW-1-20180706

**York Sample ID:** 18G0262-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
67-64-1	Acetone	8.4		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
107-02-8	Acrolein	ND		ug/L	0.20	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
71-43-2	Benzene	420		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/13/2018 14:11	07/14/2018 01:06	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
110-82-7	Cyclohexane	160		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
100-41-4	Ethyl Benzene	1000		ug/L	4.0	10	20	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/13/2018 14:11	07/14/2018 01:06	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS



### Sample Information

**Client Sample ID:** MW-1-20180706

**York Sample ID:** 18G0262-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	69		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
108-87-2	Methylcyclohexane	75		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
104-51-8	n-Butylbenzene	17		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
103-65-1	n-Propylbenzene	160		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
95-47-6	o-Xylene	43		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
179601-23-1	p- & m- Xylenes	270	SCAL-E	ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
99-87-6	p-Isopropyltoluene	5.0		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
135-98-8	sec-Butylbenzene	9.6		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
108-88-3	Toluene	46		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:00	SS
1330-20-7	Xylenes, Total	310		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/12/2018 15:01	07/13/2018 07:00	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								



Sample Information

Client Sample ID: MW-1-20180706

York Sample ID: 18G0262-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18G0262, SC18035, Water, July 6, 2018 3:00 pm, 07/09/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Surrogate: 1,2-Dichloroethane-d4, Surrogate: Toluene-d8, Surrogate: p-Bromofluorobenzene.

Sample Information

Client Sample ID: MW-2-20180706

York Sample ID: 18G0262-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18G0262, SC18035, Water, July 6, 2018 3:00 pm, 07/09/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113), 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene.



### Sample Information

**Client Sample ID:** MW-2-20180706

**York Sample ID:** 18G0262-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
123-91-1	<b>1,4-Dioxane</b>	<b>140</b>	CCV-E, SCAL-E	ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
78-93-3	<b>2-Butanone</b>	<b>0.29</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
67-64-1	<b>Acetone</b>	<b>5.0</b>		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
107-02-8	Acrolein	ND		ug/L	0.20	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
71-43-2	<b>Benzene</b>	<b>0.24</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS





### Sample Information

**Client Sample ID:** MW-2-20180706

**York Sample ID:** 18G0262-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
100-41-4	<b>Ethyl Benzene</b>	<b>0.82</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
1634-04-4	<b>Methyl tert-butyl ether (MTBE)</b>	<b>390</b>		ug/L	2.0	5.0	10	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/13/2018 14:11	07/14/2018 01:38	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
75-65-0	<b>tert-Butyl alcohol (TBA)</b>	<b>71</b>		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 07:32	SS



Sample Information

Client Sample ID: MW-2-20180706

York Sample ID: 18G0262-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18G0262, SC18035, Water, July 6, 2018 3:00 pm, 07/09/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes surrogate recoveries for 1,2-Dichloroethane-d4, Toluene-d8, and p-Bromofluorobenzene.

Sample Information

Client Sample ID: MW-3-20180706

York Sample ID: 18G0262-03

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18G0262, SC18035, Water, July 6, 2018 3:00 pm, 07/09/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

Main data table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various chloroethane and chloroethylene compounds.



### Sample Information

**Client Sample ID:** MW-3-20180706

**York Sample ID:** 18G0262-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>56</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
95-50-1	<b>1,2-Dichlorobenzene</b>	<b>0.26</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>16</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
78-93-3	<b>2-Butanone</b>	<b>3.2</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
67-64-1	<b>Acetone</b>	<b>4.7</b>		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
107-02-8	Acrolein	ND		ug/L	0.20	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
71-43-2	<b>Benzene</b>	<b>0.75</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS



### Sample Information

**Client Sample ID:** MW-3-20180706

**York Sample ID:** 18G0262-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
110-82-7	<b>Cyclohexane</b>	<b>57</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
100-41-4	<b>Ethyl Benzene</b>	<b>26</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
98-82-8	<b>Isopropylbenzene</b>	<b>4.7</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
108-87-2	<b>Methylcyclohexane</b>	<b>31</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
104-51-8	<b>n-Butylbenzene</b>	<b>3.3</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
103-65-1	<b>n-Propylbenzene</b>	<b>14</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
95-47-6	<b>o-Xylene</b>	<b>2.3</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS





### Sample Information

**Client Sample ID:** MW-3-20180706

**York Sample ID:** 18G0262-03

<u>York Project (SDG) No.</u> 18G0262	<u>Client Project ID</u> SC18035	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 6, 2018 3:00 pm	<u>Date Received</u> 07/09/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>26</b>	SCAL-E	ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>0.67</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>1.4</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
108-88-3	<b>Toluene</b>	<b>0.37</b>	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:04	SS
1330-20-7	<b>Xylenes, Total</b>	<b>29</b>		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/12/2018 15:01	07/13/2018 08:04	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
2037-26-5	Surrogate: Toluene-d8	91.9 %	81-117								
460-00-4	Surrogate: p-Bromofluorobenzene	97.9 %	79-122								

### Sample Information

**Client Sample ID:** MW-4-20180706

**York Sample ID:** 18G0262-04

<u>York Project (SDG) No.</u> 18G0262	<u>Client Project ID</u> SC18035	<u>Matrix</u> Water	<u>Collection Date/Time</u> July 6, 2018 3:00 pm	<u>Date Received</u> 07/09/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
<p>120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418</p> <p>www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@ <span style="border: 1px solid black; padding: 2px;">Page 13 of 29</span></p>											



### Sample Information

**Client Sample ID:** MW-4-20180706

**York Sample ID:** 18G0262-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
107-06-2	<b>1,2-Dichloroethane</b>	<b>0.44</b>	<b>J</b>	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS



### Sample Information

**Client Sample ID:** MW-4-20180706

**York Sample ID:** 18G0262-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
107-02-8	Acrolein	ND		ug/L	0.20	4.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>0.94</b>		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS



### Sample Information

**Client Sample ID:** MW-4-20180706

**York Sample ID:** 18G0262-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18G0262

SC18035

Water

July 6, 2018 3:00 pm

07/09/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	0.84		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
104-51-8	n-Butylbenzene	0.29	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
135-98-8	sec-Butylbenzene	0.81		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
98-06-6	tert-Butylbenzene	0.27	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
79-01-6	Trichloroethylene	0.22	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
75-01-4	Vinyl Chloride	0.21	J	ug/L	0.20	0.50	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	07/12/2018 15:01	07/13/2018 08:36	SS
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	07/12/2018 15:01	07/13/2018 08:36	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	98.4 %	69-130								
2037-26-5	Surrogate: Toluene-d8	90.6 %	81-117								





## Analytical Batch Summary

**Batch ID:** BG80535

**Preparation Method:** EPA 5030B

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0262-01	MW-1-20180706	07/12/18
18G0262-02	MW-2-20180706	07/12/18
18G0262-03	MW-3-20180706	07/12/18
18G0262-04	MW-4-20180706	07/12/18
BG80535-BLK1	Blank	07/12/18
BG80535-BS1	LCS	07/12/18

**Batch ID:** BG80594

**Preparation Method:** EPA 5030B

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18G0262-01RE1	MW-1-20180706	07/13/18
18G0262-02RE1	MW-2-20180706	07/13/18
BG80594-BLK1	Blank	07/13/18
BG80594-BS1	LCS	07/13/18
BG80594-BSD1	LCS Dup	07/13/18



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BG80535 - EPA 5030B**

**Blank (BG80535-BLK1)**

Prepared: 07/12/2018 Analyzed: 07/13/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
1,2,3-Trichlorobenzene	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	ND	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	40	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	ND	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								
Bromomethane	ND	0.50	"								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Cyclohexane	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Hexachlorobutadiene	ND	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Methylene chloride	ND	2.0	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

**Batch BG80535 - EPA 5030B**

**Blank (BG80535-BLK1)**

Prepared: 07/12/2018 Analyzed: 07/13/2018

n-Butylbenzene	ND	0.50	ug/L							
n-Propylbenzene	ND	0.50	"							
o-Xylene	ND	0.50	"							
p- & m- Xylenes	ND	1.0	"							
p-Isopropyltoluene	ND	0.50	"							
sec-Butylbenzene	ND	0.50	"							
Styrene	ND	0.50	"							
tert-Butyl alcohol (TBA)	ND	1.0	"							
tert-Butylbenzene	ND	0.50	"							
Tetrachloroethylene	ND	0.50	"							
Toluene	ND	0.50	"							
trans-1,2-Dichloroethylene	ND	0.50	"							
trans-1,3-Dichloropropylene	ND	0.50	"							
Trichloroethylene	ND	0.50	"							
Trichlorofluoromethane	ND	0.50	"							
Vinyl Chloride	ND	0.50	"							
Xylenes, Total	ND	1.5	"							
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	9.96		"	10.0		99.6	69-130			
Surrogate: Toluene-d8	9.15		"	10.0		91.5	81-117			
Surrogate: p-Bromofluorobenzene	9.97		"	10.0		99.7	79-122			

**LCS (BG80535-BS1)**

Prepared: 07/12/2018 Analyzed: 07/13/2018

1,1,1,2-Tetrachloroethane	9.8		ug/L	10.0		97.8	82-126			
1,1,1-Trichloroethane	11		"	10.0		106	78-136			
1,1,2,2-Tetrachloroethane	9.7		"	10.0		96.8	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12		"	10.0		122	54-165			
1,1,2-Trichloroethane	9.7		"	10.0		97.2	82-123			
1,1-Dichloroethane	11		"	10.0		110	82-129			
1,1-Dichloroethylene	11		"	10.0		107	68-138			
1,2,3-Trichlorobenzene	8.7		"	10.0		86.9	76-136			
1,2,3-Trichloropropane	9.5		"	10.0		94.7	77-128			
1,2,4-Trichlorobenzene	8.6		"	10.0		85.6	76-137			
1,2,4-Trimethylbenzene	9.0		"	10.0		89.5	82-132			
1,2-Dibromo-3-chloropropane	8.9		"	10.0		89.1	45-147			
1,2-Dibromoethane	10		"	10.0		100	83-124			
1,2-Dichlorobenzene	9.0		"	10.0		89.5	79-123			
1,2-Dichloroethane	11		"	10.0		110	73-132			
1,2-Dichloropropane	9.5		"	10.0		95.1	78-126			
1,3,5-Trimethylbenzene	8.9		"	10.0		89.2	80-131			
1,3-Dichlorobenzene	8.9		"	10.0		89.3	86-122			
1,4-Dichlorobenzene	8.7		"	10.0		87.4	85-124			
1,4-Dioxane	420		"	210		199	10-349			
2-Butanone	10		"	10.0		102	49-152			
2-Hexanone	9.8		"	10.0		97.6	51-146			
4-Methyl-2-pentanone	9.9		"	10.0		99.4	57-145			
Acetone	10		"	10.0		104	14-150			
Acrolein	9.1		"	100		9.06	10-153	Low Bias		
Acrylonitrile	9.6		"	10.0		96.5	51-150			
Benzene	11		"	10.0		108	85-126			
Bromochloromethane	11		"	10.0		111	77-128			
Bromodichloromethane	9.3		"	10.0		93.2	79-128			



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

**Batch BG80535 - EPA 5030B**

**LCS (BG80535-BS1)**

Prepared: 07/12/2018 Analyzed: 07/13/2018

Bromoform	10		ug/L	10.0		101	78-133				
Bromomethane	5.0		"	10.0		50.1	43-168				
Carbon disulfide	12		"	10.0		123	68-146				
Carbon tetrachloride	11		"	10.0		106	77-141				
Chlorobenzene	9.6		"	10.0		96.2	88-120				
Chloroethane	11		"	10.0		108	65-136				
Chloroform	11		"	10.0		108	82-128				
Chloromethane	8.8		"	10.0		88.1	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		107	83-129				
cis-1,3-Dichloropropylene	9.3		"	10.0		93.0	80-131				
Cyclohexane	12		"	10.0		115	63-149				
Dibromochloromethane	10		"	10.0		101	80-130				
Dibromomethane	9.6		"	10.0		96.4	72-134				
Dichlorodifluoromethane	12		"	10.0		118	44-144				
Ethyl Benzene	9.7		"	10.0		96.6	80-131				
Hexachlorobutadiene	7.6		"	10.0		76.0	67-146				
Isopropylbenzene	8.9		"	10.0		89.2	76-140				
Methyl acetate	11		"	10.0		111	51-139				
Methyl tert-butyl ether (MTBE)	11		"	10.0		112	76-135				
Methylcyclohexane	9.4		"	10.0		94.2	72-143				
Methylene chloride	8.7		"	10.0		86.8	55-137				
n-Butylbenzene	8.4		"	10.0		84.5	79-132				
n-Propylbenzene	9.0		"	10.0		89.7	78-133				
o-Xylene	9.8		"	10.0		98.1	78-130				
p- & m- Xylenes	18		"	20.0		88.6	77-133				
p-Isopropyltoluene	8.8		"	10.0		87.5	81-136				
sec-Butylbenzene	9.1		"	10.0		91.4	79-137				
Styrene	9.3		"	10.0		93.1	67-132				
tert-Butyl alcohol (TBA)	71		"	50.0		142	25-162				
tert-Butylbenzene	8.8		"	10.0		87.8	77-138				
Tetrachloroethylene	8.9		"	10.0		89.1	82-131				
Toluene	9.5		"	10.0		95.1	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		106	80-132				
trans-1,3-Dichloropropylene	8.9		"	10.0		89.1	78-131				
Trichloroethylene	9.4		"	10.0		93.6	82-128				
Trichlorofluoromethane	10		"	10.0		99.8	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.79</i>		<i>"</i>	<i>10.0</i>		<i>97.9</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.11</i>		<i>"</i>	<i>10.0</i>		<i>91.1</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.82</i>		<i>"</i>	<i>10.0</i>		<i>98.2</i>	<i>79-122</i>				





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BG80594 - EPA 5030B**

**Blank (BG80594-BLK1)**

Prepared & Analyzed: 07/13/2018

1,1,1,2-Tetrachloroethane	ND	0.50	ug/L
1,1,1-Trichloroethane	ND	0.50	"
1,1,2,2-Tetrachloroethane	ND	0.50	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"
1,1,2-Trichloroethane	ND	0.50	"
1,1-Dichloroethane	ND	0.50	"
1,1-Dichloroethylene	ND	0.50	"
1,2,3-Trichlorobenzene	ND	0.50	"
1,2,3-Trichloropropane	ND	0.50	"
1,2,4-Trichlorobenzene	ND	0.50	"
1,2,4-Trimethylbenzene	ND	0.50	"
1,2-Dibromo-3-chloropropane	ND	0.50	"
1,2-Dibromoethane	ND	0.50	"
1,2-Dichlorobenzene	ND	0.50	"
1,2-Dichloroethane	ND	0.50	"
1,2-Dichloropropane	ND	0.50	"
1,3,5-Trimethylbenzene	ND	0.50	"
1,3-Dichlorobenzene	ND	0.50	"
1,4-Dichlorobenzene	ND	0.50	"
1,4-Dioxane	ND	40	"
2-Butanone	ND	0.50	"
2-Hexanone	ND	0.50	"
4-Methyl-2-pentanone	ND	0.50	"
Acetone	ND	2.0	"
Acrolein	ND	0.50	"
Acrylonitrile	ND	0.50	"
Benzene	ND	0.50	"
Bromochloromethane	ND	0.50	"
Bromodichloromethane	ND	0.50	"
Bromoform	ND	0.50	"
Bromomethane	ND	0.50	"
Carbon disulfide	ND	0.50	"
Carbon tetrachloride	ND	0.50	"
Chlorobenzene	ND	0.50	"
Chloroethane	ND	0.50	"
Chloroform	ND	0.50	"
Chloromethane	ND	0.50	"
cis-1,2-Dichloroethylene	ND	0.50	"
cis-1,3-Dichloropropylene	ND	0.50	"
Cyclohexane	ND	0.50	"
Dibromochloromethane	ND	0.50	"
Dibromomethane	ND	0.50	"
Dichlorodifluoromethane	ND	0.50	"
Ethyl Benzene	ND	0.50	"
Hexachlorobutadiene	ND	0.50	"
Isopropylbenzene	ND	0.50	"
Methyl acetate	ND	0.50	"
Methyl tert-butyl ether (MTBE)	ND	0.50	"
Methylcyclohexane	ND	0.50	"
Methylene chloride	ND	2.0	"
n-Butylbenzene	ND	0.50	"



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Flag	RPD	
		Limit						Units	Level

**Batch BG80594 - EPA 5030B**

**Blank (BG80594-BLK1)**

Prepared & Analyzed: 07/13/2018

n-Propylbenzene	ND	0.50	ug/L						
o-Xylene	ND	0.50	"						
p- & m- Xylenes	ND	1.0	"						
p-Isopropyltoluene	ND	0.50	"						
sec-Butylbenzene	ND	0.50	"						
Styrene	ND	0.50	"						
tert-Butyl alcohol (TBA)	ND	1.0	"						
tert-Butylbenzene	ND	0.50	"						
Tetrachloroethylene	ND	0.50	"						
Toluene	ND	0.50	"						
trans-1,2-Dichloroethylene	ND	0.50	"						
trans-1,3-Dichloropropylene	ND	0.50	"						
Trichloroethylene	ND	0.50	"						
Trichlorofluoromethane	ND	0.50	"						
Vinyl Chloride	ND	0.50	"						
Xylenes, Total	ND	1.5	"						

<i>Surrogate: 1,2-Dichloroethane-d4</i>	9.98		"	10.0	99.8	69-130			
<i>Surrogate: Toluene-d8</i>	9.22		"	10.0	92.2	81-117			
<i>Surrogate: p-Bromofluorobenzene</i>	9.99		"	10.0	99.9	79-122			

**LCS (BG80594-BS1)**

Prepared & Analyzed: 07/13/2018

1,1,1,2-Tetrachloroethane	10		ug/L	10.0	101	82-126			
1,1,1-Trichloroethane	10		"	10.0	104	78-136			
1,1,2,2-Tetrachloroethane	9.7		"	10.0	97.4	76-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11		"	10.0	107	54-165			
1,1,2-Trichloroethane	10		"	10.0	104	82-123			
1,1-Dichloroethane	11		"	10.0	111	82-129			
1,1-Dichloroethylene	10		"	10.0	100	68-138			
1,2,3-Trichlorobenzene	9.5		"	10.0	95.2	76-136			
1,2,3-Trichloropropane	10		"	10.0	100	77-128			
1,2,4-Trichlorobenzene	8.7		"	10.0	87.1	76-137			
1,2,4-Trimethylbenzene	8.8		"	10.0	87.5	82-132			
1,2-Dibromo-3-chloropropane	9.2		"	10.0	92.4	45-147			
1,2-Dibromoethane	11		"	10.0	108	83-124			
1,2-Dichlorobenzene	9.0		"	10.0	90.1	79-123			
1,2-Dichloroethane	12		"	10.0	121	73-132			
1,2-Dichloropropane	9.6		"	10.0	96.4	78-126			
1,3,5-Trimethylbenzene	8.7		"	10.0	86.9	80-131			
1,3-Dichlorobenzene	8.9		"	10.0	88.8	86-122			
1,4-Dichlorobenzene	8.8		"	10.0	87.7	85-124			
1,4-Dioxane	460		"	210	221	10-349			
2-Butanone	13		"	10.0	131	49-152			
2-Hexanone	11		"	10.0	109	51-146			
4-Methyl-2-pentanone	11		"	10.0	110	57-145			
Acetone	13		"	10.0	130	14-150			
Acrolein	11		"	100	10.8	10-153			
Acrylonitrile	10		"	10.0	103	51-150			
Benzene	11		"	10.0	110	85-126			
Bromochloromethane	12		"	10.0	119	77-128			
Bromodichloromethane	9.9		"	10.0	98.7	79-128			
Bromoform	11		"	10.0	106	78-133			



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

**Batch BG80594 - EPA 5030B**

**LCS (BG80594-BS1)**

Prepared & Analyzed: 07/13/2018

Bromomethane	5.0		ug/L	10.0		50.5	43-168				
Carbon disulfide	12		"	10.0		116	68-146				
Carbon tetrachloride	10		"	10.0		101	77-141				
Chlorobenzene	9.8		"	10.0		98.5	88-120				
Chloroethane	10		"	10.0		104	65-136				
Chloroform	11		"	10.0		113	82-128				
Chloromethane	8.8		"	10.0		87.9	43-155				
cis-1,2-Dichloroethylene	11		"	10.0		110	83-129				
cis-1,3-Dichloropropylene	9.7		"	10.0		96.9	80-131				
Cyclohexane	10		"	10.0		104	63-149				
Dibromochloromethane	11		"	10.0		108	80-130				
Dibromomethane	11		"	10.0		106	72-134				
Dichlorodifluoromethane	9.6		"	10.0		96.2	44-144				
Ethyl Benzene	9.7		"	10.0		97.2	80-131				
Hexachlorobutadiene	7.2		"	10.0		71.5	67-146				
Isopropylbenzene	8.4		"	10.0		84.2	76-140				
Methyl acetate	12		"	10.0		119	51-139				
Methyl tert-butyl ether (MTBE)	12		"	10.0		120	76-135				
Methylcyclohexane	8.6		"	10.0		86.0	72-143				
Methylene chloride	9.1		"	10.0		90.7	55-137				
n-Butylbenzene	8.2		"	10.0		81.6	79-132				
n-Propylbenzene	8.6		"	10.0		86.2	78-133				
o-Xylene	10		"	10.0		99.6	78-130				
p- & m- Xylenes	18		"	20.0		89.8	77-133				
p-Isopropyltoluene	8.4		"	10.0		84.4	81-136				
sec-Butylbenzene	8.7		"	10.0		86.7	79-137				
Styrene	9.8		"	10.0		97.6	67-132				
tert-Butyl alcohol (TBA)	82		"	50.0		163	25-162		High Bias		
tert-Butylbenzene	8.4		"	10.0		83.5	77-138				
Tetrachloroethylene	8.6		"	10.0		85.8	82-131				
Toluene	9.5		"	10.0		94.9	80-127				
trans-1,2-Dichloroethylene	11		"	10.0		105	80-132				
trans-1,3-Dichloropropylene	9.5		"	10.0		95.4	78-131				
Trichloroethylene	9.5		"	10.0		95.3	82-128				
Trichlorofluoromethane	9.0		"	10.0		90.5	67-139				
Vinyl Chloride	9.6		"	10.0		95.6	58-145				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>10.2</i>		<i>"</i>	<i>10.0</i>		<i>102</i>	<i>69-130</i>				
<i>Surrogate: Toluene-d8</i>	<i>9.13</i>		<i>"</i>	<i>10.0</i>		<i>91.3</i>	<i>81-117</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.58</i>		<i>"</i>	<i>10.0</i>		<i>95.8</i>	<i>79-122</i>				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BG80594 - EPA 5030B</b>											
<b>LCS Dup (BG80594-BSD1)</b>											
Prepared & Analyzed: 07/13/2018											
1,1,1,2-Tetrachloroethane	9.8		ug/L	10.0		98.1	82-126		3.21	30	
1,1,1-Trichloroethane	11		"	10.0		107	78-136		2.95	30	
1,1,2,2-Tetrachloroethane	8.9		"	10.0		88.7	76-129		9.35	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165		4.60	30	
1,1,2-Trichloroethane	9.3		"	10.0		93.1	82-123		10.8	30	
1,1-Dichloroethane	11		"	10.0		111	82-129		0.180	30	
1,1-Dichloroethylene	9.6		"	10.0		95.5	68-138		4.90	30	
1,2,3-Trichlorobenzene	9.0		"	10.0		90.1	76-136		5.50	30	
1,2,3-Trichloropropane	9.1		"	10.0		90.6	77-128		9.96	30	
1,2,4-Trichlorobenzene	8.4		"	10.0		84.0	76-137		3.62	30	
1,2,4-Trimethylbenzene	8.9		"	10.0		89.1	82-132		1.81	30	
1,2-Dibromo-3-chloropropane	8.3		"	10.0		82.8	45-147		11.0	30	
1,2-Dibromoethane	9.8		"	10.0		98.1	83-124		9.98	30	
1,2-Dichlorobenzene	8.8		"	10.0		88.5	79-123		1.79	30	
1,2-Dichloroethane	10		"	10.0		104	73-132		14.9	30	
1,2-Dichloropropane	9.3		"	10.0		92.8	78-126		3.81	30	
1,3,5-Trimethylbenzene	8.8		"	10.0		87.9	80-131		1.14	30	
1,3-Dichlorobenzene	8.9		"	10.0		88.9	86-122		0.113	30	
1,4-Dichlorobenzene	8.7		"	10.0		87.2	85-124		0.572	30	
1,4-Dioxane	43		"	210		20.4	10-349		166	30	Non-dir.
2-Butanone	1.8		"	10.0		17.7	49-152	Low Bias	152	30	Non-dir.
2-Hexanone	9.1		"	10.0		91.2	51-146		17.9	30	
4-Methyl-2-pentanone	8.9		"	10.0		89.0	57-145		21.6	30	
Acetone	5.7		"	10.0		57.4	14-150		77.5	30	Non-dir.
Acrolein	6.8		"	100		6.76	10-153	Low Bias	46.2	30	Non-dir.
Acrylonitrile	5.5		"	10.0		54.6	51-150		61.4	30	Non-dir.
Benzene	11		"	10.0		109	85-126		0.274	30	
Bromochloromethane	11		"	10.0		108	77-128		9.44	30	
Bromodichloromethane	9.5		"	10.0		95.1	79-128		3.72	30	
Bromoform	9.6		"	10.0		95.5	78-133		10.7	30	
Bromomethane	5.2		"	10.0		52.4	43-168		3.69	30	
Carbon disulfide	12		"	10.0		118	68-146		1.54	30	
Carbon tetrachloride	11		"	10.0		106	77-141		4.74	30	
Chlorobenzene	9.7		"	10.0		97.3	88-120		1.23	30	
Chloroethane	10		"	10.0		103	65-136		1.26	30	
Chloroform	11		"	10.0		110	82-128		2.15	30	
Chloromethane	9.1		"	10.0		90.7	43-155		3.14	30	
cis-1,2-Dichloroethylene	11		"	10.0		110	83-129		0.636	30	
cis-1,3-Dichloropropylene	9.1		"	10.0		91.2	80-131		6.06	30	
Cyclohexane	11		"	10.0		111	63-149		7.26	30	
Dibromochloromethane	10		"	10.0		100	80-130		7.23	30	
Dibromomethane	9.3		"	10.0		93.4	72-134		12.3	30	
Dichlorodifluoromethane	11		"	10.0		106	44-144		9.32	30	
Ethyl Benzene	9.8		"	10.0		97.5	80-131		0.308	30	
Hexachlorobutadiene	7.3		"	10.0		73.4	67-146		2.62	30	
Isopropylbenzene	8.6		"	10.0		86.0	76-140		2.12	30	
Methyl acetate	7.7		"	10.0		77.2	51-139		42.8	30	Non-dir.
Methyl tert-butyl ether (MTBE)	11		"	10.0		108	76-135		10.7	30	
Methylcyclohexane	9.2		"	10.0		92.5	72-143		7.28	30	
Methylene chloride	8.9		"	10.0		88.7	55-137		2.23	30	
n-Butylbenzene	8.4		"	10.0		84.1	79-132		3.02	30	





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BG80594 - EPA 5030B**

**LCS Dup (BG80594-BSD1)**

Prepared & Analyzed: 07/13/2018

n-Propylbenzene	8.7		ug/L	10.0		86.7	78-133			0.578	30		
o-Xylene	10		"	10.0		99.5	78-130			0.100	30		
p- & m- Xylenes	18		"	20.0		90.6	77-133			0.942	30		
p-Isopropyltoluene	8.7		"	10.0		86.6	81-136			2.57	30		
sec-Butylbenzene	8.9		"	10.0		88.7	79-137			2.28	30		
Styrene	9.5		"	10.0		94.9	67-132			2.81	30		
tert-Butyl alcohol (TBA)	49		"	50.0		97.7	25-162			50.2	30		Non-dir.
tert-Butylbenzene	8.6		"	10.0		85.6	77-138			2.48	30		
Tetrachloroethylene	8.8		"	10.0		88.4	82-131			2.99	30		
Toluene	9.6		"	10.0		96.3	80-127			1.46	30		
trans-1,2-Dichloroethylene	11		"	10.0		108	80-132			2.25	30		
trans-1,3-Dichloropropylene	8.8		"	10.0		87.7	78-131			8.41	30		
Trichloroethylene	9.8		"	10.0		97.5	82-128			2.28	30		
Trichlorofluoromethane	9.4		"	10.0		93.6	67-139			3.37	30		
Vinyl Chloride	9.6		"	10.0		96.0	58-145			0.418	30		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>9.49</i>		<i>"</i>	<i>10.0</i>		<i>94.9</i>	<i>69-130</i>						
<i>Surrogate: Toluene-d8</i>	<i>9.29</i>		<i>"</i>	<i>10.0</i>		<i>92.9</i>	<i>81-117</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>9.61</i>		<i>"</i>	<i>10.0</i>		<i>96.1</i>	<i>79-122</i>						



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0262-01	MW-1-20180706	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0262-02	MW-2-20180706	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0262-03	MW-3-20180706	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
18G0262-04	MW-4-20180706	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
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.
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.
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 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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YORK ANALYTICAL LABORATORIES  
120 RESEARCH DR.  
STRATFORD, CT 06615  
(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

York Project No. 1860262

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

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: WCD	SAME	Gina Wolfman	SAME	Brenda	SC18035	RUSH-Same Day	Summary Report	X	QA Report		
Address: 24 Davis Avenue	Name:	<u>Same</u>	Name:	<u>Same</u>		RUSH-Next Day	CT RCP		CT RCP		
Poughkeepsie, NY	Company:		Company:		Purchase Order #	RUSH-Two Day	CT RCP DQA/DUE Pkg		NY ASP A Package		
Phone: (845) 452-1658	Address:		Address:		SC18035.40	RUSH-Three Day	NY ASP B Package		NY ASP B Package		
Contact: Gina Wolfman	E-mail:		E-mail:		Samples from NY	Standard (5-7 day)	NUDEP Reduced Deliv		Excel		

**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.**

Sample Collected/Authorized By (Signature)  
ERICK SALAZAR  
Name (printed)

Matrix Codes	Volatiles	Semi Vol's, Pesticides	Metals	Misc. Org.	Full Lists
S - soil CW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor	8260 list TICs Site Spec. STARS list Nassau Co. Subfolk Co. MIBX Ketones Oxygenates TCLP list TACM list CT RCP list Arom only Halog only App. IX list 8021B list	8270 G-625 8082 PCB 8081 PEST 815 Herb CT RCP App. IX Site Spec. SRLP or TCLP TCLP list SRLP list NDEP list App. IX Chloridane 608 PEST SRLP or TCLP 608 PCB	RCLAS PE13 list TAL CTE15 list TACGM list NDEP list Total Dissolved SRLP or TCLP Inale Metals LIST - Selw	TPH GRO TPH DRO CTETPH NY 310-13 TPH 1664 Air TOL4A Air TOL5 Air STARS Air VBI Air TICs Merhane Iridium	PH Poll. TCL Ognrke CALM60CN Full TCLP Full App. IX Pest60-Redire Pest60-Redire Pest60-Redire Pest60-Redire NYDEP Sr/2 NYDEP Sr/2 TACM

Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
MW-1-20180706	7/6/2018	Water	VOCs (8260)	4, 40-ml vials (HCL)
MW-2-20180706				
MW-3-20180706				
MW-4-20180706				

Preservation (check all applicable)  
 4°C  Frozen  HCl  MeOH  HNO<sub>3</sub>  H<sub>2</sub>SO<sub>4</sub>  NaOH  
 ZnAc  Ascorbic Acid  Other

Special Instructions  
 Field Filtered  Lab to Filter

Comments:  
 Samples Relinquished By Yvonne Date/Time 10:00  
 Samples Relinquished By Yvonne Date/Time 7-9-18  
 Samples Received By Yvonne Date/Time 7-9-18  
 Samples Received in LAB by Yvonne Date/Time 7/9/15 1500  
 Temperature on Receipt 4.7°C





# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 06/18/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18F0273

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: 06/18/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18F0273

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 June 07, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18F0273-01	MW-01	Soil	06/06/2018	06/07/2018
18F0273-02	MW-02	Soil	06/06/2018	06/07/2018
18F0273-03	MW-03	Soil	06/06/2018	06/07/2018
18F0273-04	SB-01 8-9	Soil	06/06/2018	06/07/2018
18F0273-05	SB-02 7-9	Soil	06/06/2018	06/07/2018
18F0273-06	SB-03 7-8	Soil	06/06/2018	06/07/2018
18F0273-07	SB-04 7-9	Soil	06/06/2018	06/07/2018
18F0273-08	SB-04 10-12	Soil	06/06/2018	06/07/2018
18F0273-09	MW-04	Soil	06/06/2018	06/07/2018
18F0273-10	SB-05 6-8	Soil	06/06/2018	06/07/2018
18F0273-11	SB-06 7-9	Soil	06/06/2018	06/07/2018
18F0273-12	SB-07 4-5	Soil	06/06/2018	06/07/2018

## **General Notes for York Project (SDG) No.: 18F0273**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 06/18/2018





## Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
120-12-7	Anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
218-01-9	Chrysene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
86-73-7	Fluorene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
91-20-3	<b>Naphthalene</b>	<b>1900</b>		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
85-01-8	<b>Phenanthrene</b>	<b>140</b>		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
129-00-0	Pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	27.7 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	32.9 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	34.8 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	<b>88.3</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

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

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 3550C

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	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
120-12-7	Anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
218-01-9	Chrysene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
206-44-0	Fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
86-73-7	Fluorene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
91-20-3	Naphthalene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
85-01-8	Phenanthrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
129-00-0	Pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	24.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	33.0 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	37.1 %	24-116								





### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Total Solids**

Log-in Notes:

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	90.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

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	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
120-12-7	Anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
218-01-9	<b>Chrysene</b>	<b>74</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
206-44-0	<b>Fluoranthene</b>	<b>63</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
86-73-7	Fluorene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
91-20-3	<b>Naphthalene</b>	<b>72</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
129-00-0	Pyrene	62	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	29.8 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	37.6 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	38.0 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	82.2		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
120-12-7	Anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR



### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
218-01-9	Chrysene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
86-73-7	Fluorene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
129-00-0	Pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	24.2 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	31.2 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	35.5 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	87.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

### Sample Information

**Client Sample ID:** SB-02 7-9

**York Sample ID:** 18F0273-05

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** SB-02 7-9

**York Sample ID:** 18F0273-05

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
120-12-7	Anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
218-01-9	Chrysene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
86-73-7	Fluorene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
91-20-3	<b>Naphthalene</b>	<b>1500</b>		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
85-01-8	Phenanthrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
129-00-0	Pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	25.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	34.8 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	40.6 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>* % Solids</b>	<b>89.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** SB-03 7-8

**York Sample ID:** 18F0273-06

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
120-12-7	Anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
218-01-9	Chrysene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
206-44-0	Fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
86-73-7	<b>Fluorene</b>	<b>55</b>	J	ug/kg dry	46	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
91-20-3	<b>Naphthalene</b>	<b>5000</b>		ug/kg dry	120	230	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 13:53	SR
85-01-8	<b>Phenanthrene</b>	<b>97</b>		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
129-00-0	Pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	34.8 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	36.3 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	43.0 %	24-116

**Total Solids**

**Log-in Notes:**

**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	<b>89.5</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ





### Sample Information

**Client Sample ID:** SB-03 7-8

**York Sample ID:** 18F0273-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Volatile Organics, CP-51 (formerly STARS) List

### Log-in Notes:

### 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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
71-43-2	Benzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
100-41-4	<b>Ethyl Benzene</b>	<b>1200</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
98-82-8	<b>Isopropylbenzene</b>	<b>1600</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
91-20-3	<b>Naphthalene</b>	<b>2100</b>		ug/kg dry	250	990	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
104-51-8	<b>n-Butylbenzene</b>	<b>3800</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
103-65-1	<b>n-Propylbenzene</b>	<b>5200</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
95-47-6	o-Xylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>460</b>	J	ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>1800</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-88-3	Toluene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	740	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	182 %	S-08	77-125							
2037-26-5	Surrogate: Toluene-d8	95.3 %		85-120							



### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

Log-in Notes:

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
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	112 %			76-130						

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	<b>Acenaphthene</b>	<b>180</b>		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
120-12-7	Anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
218-01-9	Chrysene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
206-44-0	Fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
86-73-7	<b>Fluorene</b>	<b>360</b>		ug/kg dry	50	99	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
91-20-3	<b>Naphthalene</b>	<b>5200</b>		ug/kg dry	120	250	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 14:43	SR
85-01-8	<b>Phenanthrene</b>	<b>570</b>		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
129-00-0	<b>Pyrene</b>	<b>85</b>	J	ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	50.2 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	40.2 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	39.7 %	24-116



**Sample Information**

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Total Solids**

**Log-in Notes:**

**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	83.9		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

**Sample Information**

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
95-63-6	1,2,4-Trimethylbenzene	38000		ug/kg dry	2500	5100	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/13/2018 10:48	SS
108-67-8	1,3,5-Trimethylbenzene	12000		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
71-43-2	Benzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
100-41-4	Ethyl Benzene	8400		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
98-82-8	Isopropylbenzene	3800		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
91-20-3	Naphthalene	6600		ug/kg dry	250	1000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
104-51-8	n-Butylbenzene	7400		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
103-65-1	n-Propylbenzene	13000		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
95-47-6	o-Xylene	1000		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
179601-23-1	p- & m- Xylenes	17000	SCAL-E	ug/kg dry	510	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
99-87-6	p-Isopropyltoluene	1300		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
135-98-8	sec-Butylbenzene	2600		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-88-3	Toluene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
1330-20-7	<b>Xylenes, Total</b>	<b>18000</b>	SCAL-E	ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	192 %	S-08		77-125						
2037-26-5	Surrogate: Toluene-d8	96.5 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	114 %			76-130						

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	<b>Acenaphthene</b>	<b>230</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
120-12-7	<b>Anthracene</b>	<b>64</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
218-01-9	<b>Chrysene</b>	<b>52</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
206-44-0	<b>Fluoranthene</b>	<b>99</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
86-73-7	<b>Fluorene</b>	<b>440</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
91-20-3	<b>Naphthalene</b>	<b>13000</b>		ug/kg dry	260	510	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 15:32	SR



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	710		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
129-00-0	Pyrene	140		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	55.8 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	37.3 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	37.9 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	81.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ

### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
71-43-2	Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.0	8.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS





### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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	15		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
135-98-8	sec-Butylbenzene	4.8		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-88-3	Toluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.8 %		77-125							
2037-26-5	Surrogate: Toluene-d8	98.2 %		85-120							
460-00-4	Surrogate: p-Bromofluorobenzene	70.1 %	S-08	76-130							

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
120-12-7	Anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
218-01-9	Chrysene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
86-73-7	Fluorene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
129-00-0	Pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	22.3 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	29.1 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	30.7 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	87.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ

### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	52	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR



### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	90	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
218-01-9	Chrysene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
206-44-0	Fluoranthene	91		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
86-73-7	Fluorene	170		ug/kg dry	46	91	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
91-20-3	Naphthalene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
85-01-8	Phenanthrene	340		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
129-00-0	Pyrene	320		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	32.4 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	34.7 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	41.2 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	91.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



### Sample Information

**Client Sample ID:** SB-06 7-9

**York Sample ID:** 18F0273-11

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
120-12-7	Anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
218-01-9	Chrysene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
86-73-7	Fluorene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
91-20-3	Naphthalene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
85-01-8	Phenanthrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
129-00-0	Pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	23.7 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	36.2 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	39.4 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	87.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
120-12-7	Anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
218-01-9	Chrysene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
86-73-7	Fluorene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
129-00-0	Pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	23.5 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	31.9 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	37.6 %	24-116

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA





### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	06/12/2018 14:08	06/13/2018 20:49	SA
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	56.0 %	30-140							

**Total Solids**

**Log-in Notes:**

**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	86.7		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



## Analytical Batch Summary

**Batch ID:** BF80581      **Preparation Method:** EPA 5035A      **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-07	SB-04 7-9	06/12/18
18F0273-08	SB-04 10-12	06/12/18
18F0273-09	MW-04	06/12/18
BF80581-BLK1	Blank	06/12/18
BF80581-BLK2	Blank	06/12/18
BF80581-BS1	LCS	06/12/18
BF80581-BSD1	LCS Dup	06/12/18

**Batch ID:** BF80629      **Preparation Method:** EPA 3550C      **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/12/18
18F0273-02	MW-02	06/12/18
18F0273-03	MW-03	06/12/18
18F0273-04	SB-01 8-9	06/12/18
18F0273-05	SB-02 7-9	06/12/18
18F0273-06	SB-03 7-8	06/12/18
18F0273-06RE1	SB-03 7-8	06/12/18
18F0273-07	SB-04 7-9	06/12/18
18F0273-07RE1	SB-04 7-9	06/12/18
18F0273-08	SB-04 10-12	06/12/18
18F0273-08RE1	SB-04 10-12	06/12/18
18F0273-09	MW-04	06/12/18
18F0273-10	SB-05 6-8	06/12/18
18F0273-11	SB-06 7-9	06/12/18
18F0273-12	SB-07 4-5	06/12/18
BF80629-BLK1	Blank	06/12/18
BF80629-BS1	LCS	06/12/18

**Batch ID:** BF80630      **Preparation Method:** EPA 3550C      **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-12	SB-07 4-5	06/12/18
BF80630-BLK2	Blank	06/12/18
BF80630-BS2	LCS	06/12/18

**Batch ID:** BF80655      **Preparation Method:** EPA 5035A      **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-08RE1	SB-04 10-12	06/12/18
BF80655-BLK1	Blank	06/13/18
BF80655-BLK2	Blank	06/13/18
BF80655-BS1	LCS	06/13/18
BF80655-BSD1	LCS Dup	06/13/18



**Batch ID:** BF80724

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/13/18
18F0273-02	MW-02	06/13/18
18F0273-03	MW-03	06/13/18
18F0273-04	SB-01 8-9	06/13/18
18F0273-05	SB-02 7-9	06/13/18
18F0273-06	SB-03 7-8	06/13/18
18F0273-07	SB-04 7-9	06/13/18

**Batch ID:** BF80735

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-08	SB-04 10-12	06/13/18
18F0273-09	MW-04	06/13/18
18F0273-10	SB-05 6-8	06/13/18
18F0273-11	SB-06 7-9	06/13/18
18F0273-12	SB-07 4-5	06/13/18
BF80735-DUP1	Duplicate	06/13/18



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80581 - EPA 5035A**

**Blank (BF80581-BLK1)**

Prepared & Analyzed: 06/12/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet								
1,3,5-Trimethylbenzene	ND	5.0	"								
Benzene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
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	"								
tert-Butylbenzene	ND	5.0	"								
Toluene	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.3		ug/L	50.0		96.6	77-125				
<i>Surrogate: Toluene-d8</i>	50.2		"	50.0		100	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	54.4		"	50.0		109	76-130				

**Blank (BF80581-BLK2)**

Prepared & Analyzed: 06/12/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet								
1,3,5-Trimethylbenzene	ND	500	"								
Benzene	ND	500	"								
Ethyl Benzene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
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	"								
tert-Butylbenzene	ND	500	"								
Toluene	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.9		ug/L	50.0		95.7	77-125				
<i>Surrogate: Toluene-d8</i>	48.9		"	50.0		97.8	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	52.1		"	50.0		104	76-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

**Batch BF80581 - EPA 5035A**

**LCS (BF80581-BS1)**

Prepared & Analyzed: 06/12/2018

1,2,4-Trimethylbenzene	46		ug/L	50.0		92.3	84-125				
1,3,5-Trimethylbenzene	49		"	50.0		97.1	82-126				
Benzene	50		"	50.0		100	77-127				
Ethyl Benzene	48		"	50.0		97.0	84-125				
Isopropylbenzene	48		"	50.0		96.6	81-127				
Methyl tert-butyl ether (MTBE)	56		"	50.0		111	74-131				
Naphthalene	52		"	50.0		104	86-141				
n-Butylbenzene	48		"	50.0		95.7	80-130				
n-Propylbenzene	48		"	50.0		95.3	74-136				
o-Xylene	50		"	50.0		100	83-123				
p- & m- Xylenes	95		"	100		95.2	82-128				
p-Isopropyltoluene	46		"	50.0		92.9	85-125				
sec-Butylbenzene	51		"	50.0		102	83-125				
tert-Butylbenzene	48		"	50.0		95.5	80-127				
Toluene	49		"	50.0		98.8	85-121				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.0</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.3</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>				

**LCS Dup (BF80581-BSD1)**

Prepared & Analyzed: 06/12/2018

1,2,4-Trimethylbenzene	45		ug/L	50.0		89.1	84-125		3.55	30
1,3,5-Trimethylbenzene	47		"	50.0		93.8	82-126		3.54	30
Benzene	48		"	50.0		96.9	77-127		3.61	30
Ethyl Benzene	48		"	50.0		95.3	84-125		1.75	30
Isopropylbenzene	47		"	50.0		94.3	81-127		2.39	30
Methyl tert-butyl ether (MTBE)	54		"	50.0		107	74-131		3.70	30
Naphthalene	51		"	50.0		103	86-141		0.774	30
n-Butylbenzene	46		"	50.0		92.2	80-130		3.79	30
n-Propylbenzene	46		"	50.0		92.6	74-136		2.94	30
o-Xylene	49		"	50.0		98.0	83-123		2.36	30
p- & m- Xylenes	93		"	100		93.2	82-128		2.22	30
p-Isopropyltoluene	45		"	50.0		90.2	85-125		2.99	30
sec-Butylbenzene	50		"	50.0		99.0	83-125		3.34	30
tert-Butylbenzene	47		"	50.0		95.0	80-127		0.525	30
Toluene	49		"	50.0		97.4	85-121		1.43	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.4</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.9</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>76-130</i>			





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF80655 - EPA 5035A**

**Blank (BF80655-BLK1)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet								
1,3,5-Trimethylbenzene	ND	5.0	"								
Benzene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
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	"								
tert-Butylbenzene	ND	5.0	"								
Toluene	ND	5.0	"								
Xylenes, Total	ND	15	"								

<i>Surrogate: 1,2-Dichloroethane-d4</i>	45.9		ug/L	50.0		91.9	77-125				
<i>Surrogate: Toluene-d8</i>	50.5		"	50.0		101	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	53.3		"	50.0		107	76-130				

**Blank (BF80655-BLK2)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet								
1,3,5-Trimethylbenzene	ND	5.0	"								
Benzene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
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	"								
tert-Butylbenzene	ND	5.0	"								
Toluene	ND	5.0	"								
Xylenes, Total	ND	15	"								

<i>Surrogate: 1,2-Dichloroethane-d4</i>	46.4		ug/L	50.0		92.7	77-125				
<i>Surrogate: Toluene-d8</i>	48.8		"	50.0		97.7	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	52.0		"	50.0		104	76-130				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

**Batch BF80655 - EPA 5035A**

**LCS (BF80655-BS1)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	42		ug/L	50.0		83.8	84-125	Low Bias		
1,3,5-Trimethylbenzene	45		"	50.0		90.5	82-126			
Benzene	49		"	50.0		99.0	77-127			
Ethyl Benzene	47		"	50.0		93.9	84-125			
Isopropylbenzene	46		"	50.0		92.6	81-127			
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131			
Naphthalene	49		"	50.0		97.6	86-141			
n-Butylbenzene	41		"	50.0		82.2	80-130			
n-Propylbenzene	43		"	50.0		86.9	74-136			
o-Xylene	48		"	50.0		96.2	83-123			
p- & m- Xylenes	90		"	100		90.4	82-128			
p-Isopropyltoluene	43		"	50.0		85.2	85-125			
sec-Butylbenzene	48		"	50.0		95.5	83-125			
tert-Butylbenzene	46		"	50.0		91.3	80-127			
Toluene	47		"	50.0		94.8	85-121			
Surrogate: 1,2-Dichloroethane-d4	50.8		"	50.0		102	77-125			
Surrogate: Toluene-d8	49.1		"	50.0		98.1	85-120			
Surrogate: p-Bromofluorobenzene	51.6		"	50.0		103	76-130			

**LCS Dup (BF80655-BSD1)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	42		ug/L	50.0		84.1	84-125	0.381	30
1,3,5-Trimethylbenzene	45		"	50.0		89.2	82-126	1.40	30
Benzene	51		"	50.0		101	77-127	2.06	30
Ethyl Benzene	46		"	50.0		92.7	84-125	1.27	30
Isopropylbenzene	45		"	50.0		89.7	81-127	3.27	30
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131	0.464	30
Naphthalene	49		"	50.0		98.3	86-141	0.714	30
n-Butylbenzene	42		"	50.0		83.7	80-130	1.78	30
n-Propylbenzene	42		"	50.0		84.7	74-136	2.56	30
o-Xylene	48		"	50.0		95.9	83-123	0.333	30
p- & m- Xylenes	91		"	100		90.7	82-128	0.320	30
p-Isopropyltoluene	43		"	50.0		85.4	85-125	0.211	30
sec-Butylbenzene	48		"	50.0		95.1	83-125	0.378	30
tert-Butylbenzene	45		"	50.0		90.2	80-127	1.21	30
Toluene	47		"	50.0		94.4	85-121	0.486	30
Surrogate: 1,2-Dichloroethane-d4	49.2		"	50.0		98.3	77-125		
Surrogate: Toluene-d8	48.6		"	50.0		97.3	85-120		
Surrogate: p-Bromofluorobenzene	49.4		"	50.0		98.9	76-130		



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80629 - EPA 3550C**

**Blank (BF80629-BLK1)**

Prepared: 06/12/2018 Analyzed: 06/15/2018

Acenaphthene	ND	42	ug/kg wet								
Acenaphthylene	ND	42	"								
Anthracene	ND	42	"								
Benzo(a)anthracene	ND	42	"								
Benzo(a)pyrene	ND	42	"								
Benzo(b)fluoranthene	ND	42	"								
Benzo(g,h,i)perylene	ND	42	"								
Benzo(k)fluoranthene	ND	42	"								
Chrysene	ND	42	"								
Dibenzo(a,h)anthracene	ND	42	"								
Fluoranthene	ND	42	"								
Fluorene	ND	42	"								
Indeno(1,2,3-cd)pyrene	ND	42	"								
Naphthalene	ND	42	"								
Phenanthrene	ND	42	"								
Pyrene	ND	42	"								

<i>Surrogate: Nitrobenzene-d5</i>	630		"	1670		37.5	22-108				
<i>Surrogate: 2-Fluorobiphenyl</i>	620		"	1660		37.2	21-113				
<i>Surrogate: Terphenyl-d14</i>	670		"	1670		39.9	24-116				

**LCS (BF80629-BS1)**

Prepared: 06/12/2018 Analyzed: 06/15/2018

Acenaphthene	540	42	ug/kg wet	833		65.4	17-124				
Acenaphthylene	530	42	"	833		63.9	16-124				
Anthracene	560	42	"	833		67.3	24-124				
Benzo(a)anthracene	580	42	"	833		69.3	25-134				
Benzo(a)pyrene	640	42	"	833		76.2	29-144				
Benzo(b)fluoranthene	610	42	"	833		73.7	20-151				
Benzo(g,h,i)perylene	700	42	"	833		84.4	10-153				
Benzo(k)fluoranthene	600	42	"	833		71.7	10-148				
Chrysene	570	42	"	833		69.0	24-116				
Dibenzo(a,h)anthracene	760	42	"	833		91.3	17-147				
Fluoranthene	570	42	"	833		68.0	36-125				
Fluorene	550	42	"	833		65.5	16-130				
Indeno(1,2,3-cd)pyrene	540	42	"	833		64.4	10-155				
Naphthalene	610	42	"	833		73.5	20-121				
Phenanthrene	570	42	"	833		68.4	24-123				
Pyrene	520	42	"	833		61.9	24-132				

<i>Surrogate: Nitrobenzene-d5</i>	590		"	1670		35.2	22-108				
<i>Surrogate: 2-Fluorobiphenyl</i>	560		"	1660		33.6	21-113				
<i>Surrogate: Terphenyl-d14</i>	600		"	1670		36.1	24-116				



**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Flag	RPD	RPD	Flag
		Limit		Level	Result	Limits	Limit				

**Batch BF80630 - EPA 3550C**

**Blank (BF80630-BLK2)**

Prepared: 06/12/2018 Analyzed: 06/13/2018

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0720		"	0.0673		107	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0620		"	0.0697		89.0	30-140				

**LCS (BF80630-BS2)**

Prepared: 06/12/2018 Analyzed: 06/13/2018

Aroclor 1016	0.392	0.0167	mg/kg wet	0.333		118	40-130				
Aroclor 1260	0.350	0.0167	"	0.333		105	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0780		"	0.0673		116	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0670		"	0.0697		96.2	30-140				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80735 - % Solids Prep**

<b>Duplicate (BF80735-DUP1)</b>	*Source sample: 18F0273-08 (SB-04 10-12)						Prepared: 06/13/2018 Analyzed: 06/14/2018				
% Solids	81.4	0.100	%		81.6				0.253	20	





### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18F0273-07	SB-04 7-9	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0273-08	SB-04 10-12	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0273-09	MW-04	40mL Vial with Stir Bar-Cool 4° C



## Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
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.

### 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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(203) 325-1371  
FAX (203) 357-0166

# Field Chain-of-Custody Record

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

York Project No. 18F0273

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type									
Company: <b>WCD</b>	<b>SAME</b> Gina Wolfman	<b>SAME</b> Brenda	<b>SAME</b> Brenda	SB18035		RUSH-Same Day		RUSH-Same Day		Summary Report X									
Address: 24 Davis Avenue	Name:	Name:	Name:	Purchase Order #		RUSH-Next Day		RUSH-Next Day		QA Report									
Poughkeepsie, NY	Company:	Company:	Company:	SC18035		RUSH-Two Day		RUSH-Two Day		CT RCP									
Phone: (845) 452-1658	Address:	Address:	Address:	Samples from NY		RUSH-Three Day		RUSH-Three Day		CT RCP DQ/DUE Pkg									
Contact: Gina Wolfman	E-mail:	E-mail:	E-mail:	Matrix Codes		Standard (5-7day)		RUSH-Four Day		NY ASP A Package									
E-mail:				S - soil				Standard (5-7day)		NY ASP B Package									
<p><b>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.</b></p> <p>Samples Collected/Authorized By (Signature) <i>Gina Wolfman</i> Name (printed) Gina Wolfman</p>				Volatiles		Metals		Misc. Org.		Full Lists									
				<p>8269 Jul TICs</p> <p>621 Site Spec.</p> <p>STARS list Nassau Co.</p> <p>UTILX Suffolk Co.</p> <p>MIDDLE k-etones</p> <p>TULL list Oxygenates</p> <p>TACUM list TULLP list</p> <p>CT RCP list 5242</p> <p>Arom only 5022</p> <p>Fasting only NDEP list</p> <p>App IX list STP/TCTP</p> <p>8021B list</p>		<p>RCPRA8</p> <p>PF13 list</p> <p>TAL</p> <p>CTI5 list</p> <p>TAGM list</p> <p>NDEP list</p> <p>All TOL4A</p> <p>All TOL2</p> <p>All STARS</p> <p>Air VEH1</p> <p>Air TICs</p> <p>Methane</p> <p>Medium</p>		<p>TPH GRO</p> <p>TPH DRO</p> <p>CT ETPH</p> <p>NY 310-13</p> <p>TPH 1664</p> <p>All TOL4A</p> <p>All TOL2</p> <p>All STARS</p> <p>Air VEH1</p> <p>Air TICs</p> <p>Methane</p> <p>Medium</p>		<p>Phi Poll.</p> <p>TCL Organics</p> <p>TAL-MERCN</p> <p>Full TCLP</p> <p>Full App IX</p> <p>Part 300-Excl-4</p> <p>Part 300-Build up</p> <p>Part 300-Base</p> <p>Part 300-Excl-4</p> <p>Part 300-Excl-4</p> <p>NY DEP Series</p> <p>NY DEP Series</p> <p>NY DEP Series</p>		<p>Excel</p> <p>NY SDEC EQUIS</p> <p>NUDEP SRP HazSite</p> <p>EQUIS</p> <p>GIS/KEY (std)</p> <p>YORK Regulatory Comp Excel compared to:</p> <p>NY SDEC UU &amp; RRUSCO</p>		OTHER:					
Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	4°C		Frozen		HCl		MeOH		HNO <sub>3</sub>		H <sub>2</sub> O <sub>2</sub>		NaOH			
MW-01	6/6/2018	Soil	CP-51 Full Petroleum Compound List (8270)	ZnAc		Ascorbic Acid		Other											
MW-02																			
MW-03																			
SB-01 8-9																			
SB-02 7-9																			
SB-03 7-8																			
SB-04 7-9			CP-51 Full Petroleum Compound List (8270); VOCs (8260)																
SB-04 10-12																			
<p>Preservation (check all applicable)</p> <p>Special Instructions</p> <p>Field Filtered <input type="checkbox"/></p> <p>Lab to Filter <input type="checkbox"/></p>				<p>4°C</p> <p>Frozen</p> <p>HCl</p> <p>ZnAc</p> <p>MeOH</p> <p>Ascorbic Acid</p> <p>Other</p>				<p>Samples Relinquished By <i>Chick</i> 6-7-18 11:00a</p> <p>Date/Time</p> <p>Samples Relinquished By <i>Chick</i> 6-7-18 1508</p> <p>Date/Time</p>				<p>Samples Received By <i>Chick</i> 6-7-18 11:00</p> <p>Date/Time</p> <p>Samples Received in LAB by <i>Chick</i> 6/7/18 1508</p> <p>Date/Time</p>				<p>Temperature on Receipt <u>3.7°C</u></p>			
<p>Comments: VOA kit: 4 X 40ml vials, laboratory supplied</p> <p>*Hold 8-oz glass for possible additional analysis</p>																			





YORK ANALYTICAL LABORATORIES  
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# Field Chain-of-Custody Record

York Project No. 18F0723

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

YOUR Information		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type			
Company: <u>WCD</u>	<u>SAME</u>	<u>Gina Wolfman</u>	<u>SAME</u>	<u>Brenda</u>	<u>SB18035</u>	RUSH-Same Day		Summary Report		X			
Address: 24 Davis Avenue	Name: _____	Company: _____	Name: _____	Purchase Order #		RUSH-Next Day		QA Report					
Phone: (845) 452-1658	Company: _____	Address: _____	Company: _____	Purchase Order #		RUSH-Two Day		CT RCP					
Contact: Gina Wolfman	Address: _____	E-mail: _____	Address: _____	Purchase Order #		RUSH-Three Day		CT RCP DQADUE Pkg					
E-mail: _____	E-mail: _____	E-mail: _____		Purchase Order #		RUSH-Four Day		NY ASP A Package					
Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.		Samples Collected/Authorized By (Signature) <u>Gina Wolfman</u>		Samples from <u>NY</u>		Standard (5-7 day)		NY ASP B Package					
Matrix Codes S - soil CW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor		Volatiles 8260 list 62-1 STARS list DULX MILU TULL list TAGM list CT RCP list Arom only Flamg only App. IX list 8021B list		Semi Vol., Pest/Chlor 8270 or 625 STARS list JUN Only Acids Only PALL list TAGM list CT RCP list TUL list NTD list App. IX list TCLP BNA SPL or TCLP		Metals RCRA8 PPL3 list TAL CT15 list TAGM list NDEP list Total Dissolved SPL or TCLP Asbestos Asst. - Asst. w/ MSU - Asst. w/ Medium		Misc. Org. TPH GRO TPH DRO CT EPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS SPL or TCLP Air VBI Air TICs Medians Medium		Full Lists Pri Poll. TCL Organics CALMACH Full TCLP Full App. IX Pul300-Resid. Pul300-Base Pul300-Base Pul300-Base Pul300-Base NYDEC Sites NYDEC Sites TAGM		Excel NYSDEC EQUIS NJDEP SRP HazSite EQUIS GIS/KEY (std) YORK Regulatory Comp Excel compared to: NYSDEC UU & RRUSCO OTHER:	
Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)										
MW-04	6/6/2018	Soil	NYSDEC CP-51 Full Petro. Comp List (8270); VOCs (8260)										
SB-05 6-8			CP-51 Full Petroleum Compound List (8270)										
SB-06 7-9			CP-51 Full Petroleum Compound List (8270); PCBs										
SB-07 4-5													
Container Description			4, 40-ml vials 1, 8-oz glass*										
Comments:			Preservation (check all applicable): 4°C _____ Frozen _____ HCl _____ MeOH _____ HNO <sub>3</sub> _____ H <sub>2</sub> O _____ NaOH _____ ZnAc _____ Ascorbic Acid _____ Other _____ Special Instructions: Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/> VOA kit: 4 X 40ml vials, laboratory supplied *Hold 8-oz glass for possible additional analysis Samples Relinquished By <u>_____</u> Date/Time <u>6-7-18 11:00</u> Samples Relinquished By <u>_____</u> Date/Time <u>6-7-18 1508</u> Samples Received in LAB by <u>_____</u> Date/Time <u>6-7-18 11:00</u> Samples Received in LAB by <u>_____</u> Date/Time <u>6/7/18 1508</u> Temperature on Receipt <u>3.2°C</u>										



# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 06/22/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18F0273

Revision No. 1.0

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](mailto:ClientServices@yorklab.com)



Report Date: 06/22/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18F0273

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 June 07, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18F0273-01	MW-01	Soil	06/06/2018	06/07/2018
18F0273-02	MW-02	Soil	06/06/2018	06/07/2018
18F0273-03	MW-03	Soil	06/06/2018	06/07/2018
18F0273-04	SB-01 8-9	Soil	06/06/2018	06/07/2018
18F0273-05	SB-02 7-9	Soil	06/06/2018	06/07/2018
18F0273-06	SB-03 7-8	Soil	06/06/2018	06/07/2018
18F0273-07	SB-04 7-9	Soil	06/06/2018	06/07/2018
18F0273-08	SB-04 10-12	Soil	06/06/2018	06/07/2018
18F0273-09	MW-04	Soil	06/06/2018	06/07/2018
18F0273-10	SB-05 6-8	Soil	06/06/2018	06/07/2018
18F0273-11	SB-06 7-9	Soil	06/06/2018	06/07/2018
18F0273-12	SB-07 4-5	Soil	06/06/2018	06/07/2018

## **General Notes for York Project (SDG) No.: 18F0273**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 06/22/2018





## Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

Log-in Notes:

Sample Notes: HT-01R

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
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>20000</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>600</b>	J	ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
71-43-2	Benzene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
100-41-4	<b>Ethyl Benzene</b>	<b>11000</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
98-82-8	<b>Isopropylbenzene</b>	<b>1400</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
91-20-3	<b>Naphthalene</b>	<b>5700</b>	B	ug/kg dry	320	1300	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
104-51-8	<b>n-Butylbenzene</b>	<b>2000</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
103-65-1	<b>n-Propylbenzene</b>	<b>5200</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
95-47-6	o-Xylene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 18:02	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>5300</b>		ug/kg dry	630	1300	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 18:02	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>640</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>760</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
108-88-3	Toluene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
1330-20-7	<b>Xylenes, Total</b>	<b>5500</b>		ug/kg dry	950	1900	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	79.7 %	
2037-26-5	Surrogate: Toluene-d8	99.7 %	
460-00-4	Surrogate: p-Bromofluorobenzene	95.4 %	

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
120-12-7	Anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
218-01-9	Chrysene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
86-73-7	Fluorene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
91-20-3	<b>Naphthalene</b>	<b>1900</b>		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
85-01-8	<b>Phenanthrene</b>	<b>140</b>		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
129-00-0	Pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	27.7 %
321-60-8	Surrogate: 2-Fluorobiphenyl	32.9 %
1718-51-0	Surrogate: Terphenyl-d14	34.8 %

**Total Solids**

**Log-in Notes:**

**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	<b>88.3</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Volatile Organics, CP-51 (formerly STARS) List

### Log-in Notes:

### Sample Notes: HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
71-43-2	<b>Benzene</b>	<b>1.9</b>	J	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	7.7	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.9	7.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-88-3	Toluene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	91.3 %	77-125								
2037-26-5	Surrogate: Toluene-d8	98.9 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	104 %	76-130								





### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
120-12-7	Anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
218-01-9	Chrysene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
206-44-0	Fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
86-73-7	Fluorene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
91-20-3	Naphthalene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
85-01-8	Phenanthrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
129-00-0	Pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	24.3 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	33.0 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	37.1 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	90.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
71-43-2	Benzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
100-41-4	<b>Ethyl Benzene</b>	<b>2.5</b>	J	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
91-20-3	<b>Naphthalene</b>	<b>4.2</b>	J, B	ug/kg dry	2.5	10	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
104-51-8	<b>n-Butylbenzene</b>	<b>2.5</b>	J	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
103-65-1	<b>n-Propylbenzene</b>	<b>3.1</b>	J	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-88-3	Toluene	ND		ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.8 %	77-125								
2037-26-5	Surrogate: Toluene-d8	97.4 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	102 %	76-130								

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
120-12-7	Anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
218-01-9	<b>Chrysene</b>	<b>74</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
206-44-0	<b>Fluoranthene</b>	<b>63</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
86-73-7	Fluorene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
91-20-3	<b>Naphthalene</b>	<b>72</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
129-00-0	<b>Pyrene</b>	<b>62</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	29.8 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	37.6 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	38.0 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>82.2</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	74		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
108-67-8	1,3,5-Trimethylbenzene	7.8		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
71-43-2	Benzene	6.9		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
100-41-4	Ethyl Benzene	35		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
98-82-8	Isopropylbenzene	4.0	J	ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
91-20-3	Naphthalene	41	B	ug/kg dry	2.2	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
104-51-8	n-Butylbenzene	3.1	J	ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
103-65-1	n-Propylbenzene	13		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:43	SS
179601-23-1	p- & m- Xylenes	72		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
108-88-3	Toluene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
1330-20-7	Xylenes, Total	73		ug/kg dry	6.6	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS

**Surrogate Recoveries**

Surrogate	Result	Acceptance Range
17060-07-0 Surrogate: 1,2-Dichloroethane-d4	88.6 %	77-125
2037-26-5 Surrogate: Toluene-d8	98.7 %	85-120
460-00-4 Surrogate: p-Bromofluorobenzene	104 %	76-130

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
120-12-7	Anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
218-01-9	Chrysene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
86-73-7	Fluorene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
129-00-0	Pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	24.2 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	31.2 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	35.5 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	87.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ





### Sample Information

**Client Sample ID:** SB-02 7-9

**York Sample ID:** 18F0273-05

**York Project (SDG) No.**

**Client Project ID**

**Matrix**

**Collection Date/Time**

**Date Received**

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes: HT-01R**

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
95-63-6	1,2,4-Trimethylbenzene	110000		ug/kg dry	1200	2400	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 13:08	SS
108-67-8	1,3,5-Trimethylbenzene	32000		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
71-43-2	Benzene	170		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
100-41-4	Ethyl Benzene	31000		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
98-82-8	Isopropylbenzene	4800		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
91-20-3	Naphthalene	530		ug/kg dry	3.9	16	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
104-51-8	n-Butylbenzene	7500		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
103-65-1	n-Propylbenzene	16000		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
95-47-6	o-Xylene	3400		ug/kg dry	1200	2400	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/22/2018 07:30	06/22/2018 13:08	SS
179601-23-1	p- & m- Xylenes	120000		ug/kg dry	2400	4800	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/22/2018 07:30	06/22/2018 13:08	SS
99-87-6	p-Isopropyltoluene	1300		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
135-98-8	sec-Butylbenzene	270		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
108-88-3	Toluene	53		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
1330-20-7	Xylenes, Total	120000		ug/kg dry	3600	7300	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/22/2018 07:30	06/22/2018 13:08	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	125 %			77-125						
2037-26-5	Surrogate: Toluene-d8	93.1 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	126 %			76-130						

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** SB-02 7-9

**York Sample ID:** 18F0273-05

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
120-12-7	Anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
218-01-9	Chrysene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
86-73-7	Fluorene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
91-20-3	<b>Naphthalene</b>	<b>1500</b>		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
85-01-8	Phenanthrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
129-00-0	Pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	25.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	34.8 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	40.6 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>89.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** SB-03 7-8

**York Sample ID:** 18F0273-06

**York Project (SDG) No.**  
18F0273

**Client Project ID**  
SC18035

**Matrix**  
Soil

**Collection Date/Time**  
June 6, 2018 3:00 pm

**Date Received**  
06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	170000		ug/kg dry	2000	4000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
108-67-8	1,3,5-Trimethylbenzene	56000		ug/kg dry	2000	4000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
71-43-2	Benzene	210		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
100-41-4	Ethyl Benzene	55000		ug/kg dry	2000	4000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
98-82-8	Isopropylbenzene	7500		ug/kg dry	200	400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
91-20-3	Naphthalene	22000	B	ug/kg dry	200	810	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
104-51-8	n-Butylbenzene	11000		ug/kg dry	200	400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
103-65-1	n-Propylbenzene	26000		ug/kg dry	200	400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
95-47-6	o-Xylene	210		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/20/2018 07:30	06/20/2018 16:12	SS
179601-23-1	p- & m- Xylenes	180000		ug/kg dry	4000	8100	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/22/2018 07:30	06/22/2018 12:40	SS
99-87-6	p-Isopropyltoluene	160		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
135-98-8	sec-Butylbenzene	180		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
108-88-3	Toluene	53		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
1330-20-7	Xylenes, Total	180000		ug/kg dry	6100	12000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	86.7 %			77-125						
2037-26-5	Surrogate: Toluene-d8	96.6 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	107 %			76-130						

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** SB-03 7-8

**York Sample ID:** 18F0273-06

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
120-12-7	Anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
218-01-9	Chrysene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
206-44-0	Fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
86-73-7	<b>Fluorene</b>	<b>55</b>	J	ug/kg dry	46	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
91-20-3	<b>Naphthalene</b>	<b>5000</b>		ug/kg dry	120	230	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 13:53	SR
85-01-8	<b>Phenanthrene</b>	<b>97</b>		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
129-00-0	Pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	34.8 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	36.3 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	43.0 %	24-116

**Total Solids**

**Log-in Notes:**

**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	<b>89.5</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** SB-03 7-8

**York Sample ID:** 18F0273-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Volatile Organics, CP-51 (formerly STARS) List

### Log-in Notes:

### 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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
71-43-2	Benzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
100-41-4	<b>Ethyl Benzene</b>	<b>1200</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
98-82-8	<b>Isopropylbenzene</b>	<b>1600</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
91-20-3	<b>Naphthalene</b>	<b>2100</b>		ug/kg dry	250	990	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
104-51-8	<b>n-Butylbenzene</b>	<b>3800</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
103-65-1	<b>n-Propylbenzene</b>	<b>5200</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
95-47-6	o-Xylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>460</b>	J	ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>1800</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-88-3	Toluene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	740	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	182 %	S-08	77-125							
2037-26-5	Surrogate: Toluene-d8	95.3 %		85-120							



### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

Log-in Notes:

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
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	112 %			76-130						

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	<b>Acenaphthene</b>	<b>180</b>		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
120-12-7	Anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
218-01-9	Chrysene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
206-44-0	Fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
86-73-7	<b>Fluorene</b>	<b>360</b>		ug/kg dry	50	99	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
91-20-3	<b>Naphthalene</b>	<b>5200</b>		ug/kg dry	120	250	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 14:43	SR
85-01-8	<b>Phenanthrene</b>	<b>570</b>		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
129-00-0	<b>Pyrene</b>	<b>85</b>	J	ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	50.2 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	40.2 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	39.7 %	24-116





### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Total Solids**

**Log-in Notes:**

**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	83.9		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
95-63-6	1,2,4-Trimethylbenzene	38000		ug/kg dry	2500	5100	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/13/2018 10:48	SS
108-67-8	1,3,5-Trimethylbenzene	12000		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
71-43-2	Benzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
100-41-4	Ethyl Benzene	8400		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
98-82-8	Isopropylbenzene	3800		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
91-20-3	Naphthalene	6600		ug/kg dry	250	1000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
104-51-8	n-Butylbenzene	7400		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
103-65-1	n-Propylbenzene	13000		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
95-47-6	o-Xylene	1000		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
179601-23-1	p- & m- Xylenes	17000	SCAL- E	ug/kg dry	510	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
99-87-6	p-Isopropyltoluene	1300		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
135-98-8	sec-Butylbenzene	2600		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-88-3	Toluene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
1330-20-7	<b>Xylenes, Total</b>	<b>18000</b>	SCAL-E	ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	192 %	S-08		77-125						
2037-26-5	Surrogate: Toluene-d8	96.5 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	114 %			76-130						

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	<b>Acenaphthene</b>	<b>230</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
120-12-7	<b>Anthracene</b>	<b>64</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
218-01-9	<b>Chrysene</b>	<b>52</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
206-44-0	<b>Fluoranthene</b>	<b>99</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
86-73-7	<b>Fluorene</b>	<b>440</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
91-20-3	<b>Naphthalene</b>	<b>13000</b>		ug/kg dry	260	510	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 15:32	SR



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-01-8	Phenanthrene	710		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
129-00-0	Pyrene	140		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	55.8 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	37.3 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	37.9 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	81.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ

### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
71-43-2	Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.0	8.2	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

York Project (SDG) No.

Client Project ID

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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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	15		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
135-98-8	sec-Butylbenzene	4.8		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-88-3	Toluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.8 %		77-125							
2037-26-5	Surrogate: Toluene-d8	98.2 %		85-120							
460-00-4	Surrogate: p-Bromofluorobenzene	70.1 %	S-08	76-130							

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
120-12-7	Anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
218-01-9	Chrysene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

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Soil

June 6, 2018 3:00 pm

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
86-73-7	Fluorene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
129-00-0	Pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	22.3 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	29.1 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	30.7 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	87.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ

### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	21000		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
108-67-8	1,3,5-Trimethylbenzene	4100		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS



### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
71-43-2	<b>Benzene</b>	<b>530</b>	J	ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
98-82-8	<b>Isopropylbenzene</b>	<b>2000</b>		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
91-20-3	<b>Naphthalene</b>	<b>2700</b>	B	ug/kg dry	490	1900	200	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
104-51-8	<b>n-Butylbenzene</b>	<b>2800</b>		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
103-65-1	<b>n-Propylbenzene</b>	<b>6400</b>		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
95-47-6	o-Xylene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 19:27	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>1000</b>	J	ug/kg dry	970	1900	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 19:27	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>940</b>	J	ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
108-88-3	Toluene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	1500	2900	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	81.0 %	77-125								
2037-26-5	Surrogate: Toluene-d8	96.6 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	100 %	76-130								

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	<b>Acenaphthene</b>	<b>52</b>	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
120-12-7	<b>Anthracene</b>	<b>90</b>	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR





### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
218-01-9	Chrysene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
206-44-0	<b>Fluoranthene</b>	<b>91</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
86-73-7	<b>Fluorene</b>	<b>170</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
91-20-3	Naphthalene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
85-01-8	<b>Phenanthrene</b>	<b>340</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
129-00-0	<b>Pyrene</b>	<b>320</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	32.4 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	34.7 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	41.2 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	91.6		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



### Sample Information

**Client Sample ID:** SB-06 7-9

**York Sample ID:** 18F0273-11

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
71-43-2	Benzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	7.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.8	7.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
108-88-3	Toluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	90.2 %	77-125								
2037-26-5	Surrogate: Toluene-d8	98.9 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	76-130								

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR



### Sample Information

**Client Sample ID:** SB-06 7-9

**York Sample ID:** 18F0273-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
120-12-7	Anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
218-01-9	Chrysene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
86-73-7	Fluorene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
91-20-3	Naphthalene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
85-01-8	Phenanthrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
129-00-0	Pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	23.7 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	36.2 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	39.4 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	87.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
71-43-2	Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
91-20-3	<b>Naphthalene</b>	<b>2.2</b>	J, B	ug/kg dry	2.2	8.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-88-3	Toluene	ND		ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	88.9 %	77-125								
2037-26-5	Surrogate: Toluene-d8	95.0 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	99.9 %	76-130								

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR



### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
120-12-7	Anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
218-01-9	Chrysene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
86-73-7	Fluorene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
129-00-0	Pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	23.5 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	31.9 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	37.6 %	24-116								

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA



**Sample Information**

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	06/12/2018 14:08	06/13/2018 20:49	SA
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	56.0 %	30-140							

**Total Solids**

**Log-in Notes:**

**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	86.7		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ





## Analytical Batch Summary

**Batch ID:** BF80581      **Preparation Method:** EPA 5035A      **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-07	SB-04 7-9	06/12/18
18F0273-08	SB-04 10-12	06/12/18
18F0273-09	MW-04	06/12/18
BF80581-BLK1	Blank	06/12/18
BF80581-BLK2	Blank	06/12/18
BF80581-BS1	LCS	06/12/18
BF80581-BSD1	LCS Dup	06/12/18

**Batch ID:** BF80629      **Preparation Method:** EPA 3550C      **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/12/18
18F0273-02	MW-02	06/12/18
18F0273-03	MW-03	06/12/18
18F0273-04	SB-01 8-9	06/12/18
18F0273-05	SB-02 7-9	06/12/18
18F0273-06	SB-03 7-8	06/12/18
18F0273-06RE1	SB-03 7-8	06/12/18
18F0273-07	SB-04 7-9	06/12/18
18F0273-07RE1	SB-04 7-9	06/12/18
18F0273-08	SB-04 10-12	06/12/18
18F0273-08RE1	SB-04 10-12	06/12/18
18F0273-09	MW-04	06/12/18
18F0273-10	SB-05 6-8	06/12/18
18F0273-11	SB-06 7-9	06/12/18
18F0273-12	SB-07 4-5	06/12/18
BF80629-BLK1	Blank	06/12/18
BF80629-BS1	LCS	06/12/18

**Batch ID:** BF80630      **Preparation Method:** EPA 3550C      **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-12	SB-07 4-5	06/12/18
BF80630-BLK2	Blank	06/12/18
BF80630-BS2	LCS	06/12/18

**Batch ID:** BF80655      **Preparation Method:** EPA 5035A      **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-08RE1	SB-04 10-12	06/12/18
BF80655-BLK1	Blank	06/13/18
BF80655-BLK2	Blank	06/13/18
BF80655-BS1	LCS	06/13/18
BF80655-BSD1	LCS Dup	06/13/18



**Batch ID:** BF80724

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/13/18
18F0273-02	MW-02	06/13/18
18F0273-03	MW-03	06/13/18
18F0273-04	SB-01 8-9	06/13/18
18F0273-05	SB-02 7-9	06/13/18
18F0273-06	SB-03 7-8	06/13/18
18F0273-07	SB-04 7-9	06/13/18

**Batch ID:** BF80735

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-08	SB-04 10-12	06/13/18
18F0273-09	MW-04	06/13/18
18F0273-10	SB-05 6-8	06/13/18
18F0273-11	SB-06 7-9	06/13/18
18F0273-12	SB-07 4-5	06/13/18
BF80735-DUP1	Duplicate	06/13/18

**Batch ID:** BF81084

**Preparation Method:** EPA 5035A

**Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-05	SB-02 7-9	06/20/18
18F0273-06	SB-03 7-8	06/20/18
BF81084-BLK1	Blank	06/20/18
BF81084-BLK2	Blank	06/20/18
BF81084-BS1	LCS	06/20/18
BF81084-BSD1	LCS Dup	06/20/18

**Batch ID:** BF81161

**Preparation Method:** EPA 5035A

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/21/18
18F0273-02	MW-02	06/21/18
18F0273-03	MW-03	06/21/18
18F0273-04	SB-01 8-9	06/21/18
18F0273-05RE1	SB-02 7-9	06/21/18
18F0273-06RE1	SB-03 7-8	06/21/18
18F0273-10	SB-05 6-8	06/21/18
18F0273-11	SB-06 7-9	06/21/18
18F0273-12	SB-07 4-5	06/21/18
BF81161-BLK1	Blank	06/21/18
BF81161-BLK2	Blank	06/21/18
BF81161-BS1	LCS	06/21/18
BF81161-BSD1	LCS Dup	06/21/18



**Batch ID:** BF81236

**Preparation Method:** EPA 5035A

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-05RE2	SB-02 7-9	06/22/18
18F0273-06RE2	SB-03 7-8	06/22/18
BF81236-BLK1	Blank	06/22/18
BF81236-BLK2	Blank	06/22/18
BF81236-BS1	LCS	06/22/18
BF81236-BSD1	LCS Dup	06/22/18



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80581 - EPA 5035A**

<b>Blank (BF80581-BLK1)</b>											Prepared & Analyzed: 06/12/2018	
1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet									
1,3,5-Trimethylbenzene	ND	5.0	"									
Benzene	ND	5.0	"									
Ethyl Benzene	ND	5.0	"									
Isopropylbenzene	ND	5.0	"									
Methyl tert-butyl ether (MTBE)	ND	5.0	"									
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	"									
tert-Butylbenzene	ND	5.0	"									
Toluene	ND	5.0	"									
Xylenes, Total	ND	15	"									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.3		ug/L	50.0		96.6	77-125					
<i>Surrogate: Toluene-d8</i>	50.2		"	50.0		100	85-120					
<i>Surrogate: p-Bromofluorobenzene</i>	54.4		"	50.0		109	76-130					

<b>Blank (BF80581-BLK2)</b>											Prepared & Analyzed: 06/12/2018	
1,2,4-Trimethylbenzene	ND	500	ug/kg wet									
1,3,5-Trimethylbenzene	ND	500	"									
Benzene	ND	500	"									
Ethyl Benzene	ND	500	"									
Isopropylbenzene	ND	500	"									
Methyl tert-butyl ether (MTBE)	ND	500	"									
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	"									
tert-Butylbenzene	ND	500	"									
Toluene	ND	500	"									
Xylenes, Total	ND	1500	"									
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.9		ug/L	50.0		95.7	77-125					
<i>Surrogate: Toluene-d8</i>	48.9		"	50.0		97.8	85-120					
<i>Surrogate: p-Bromofluorobenzene</i>	52.1		"	50.0		104	76-130					



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

**Batch BF80581 - EPA 5035A**

**LCS (BF80581-BS1)**

Prepared & Analyzed: 06/12/2018

1,2,4-Trimethylbenzene	46		ug/L	50.0		92.3	84-125				
1,3,5-Trimethylbenzene	49		"	50.0		97.1	82-126				
Benzene	50		"	50.0		100	77-127				
Ethyl Benzene	48		"	50.0		97.0	84-125				
Isopropylbenzene	48		"	50.0		96.6	81-127				
Methyl tert-butyl ether (MTBE)	56		"	50.0		111	74-131				
Naphthalene	52		"	50.0		104	86-141				
n-Butylbenzene	48		"	50.0		95.7	80-130				
n-Propylbenzene	48		"	50.0		95.3	74-136				
o-Xylene	50		"	50.0		100	83-123				
p- & m- Xylenes	95		"	100		95.2	82-128				
p-Isopropyltoluene	46		"	50.0		92.9	85-125				
sec-Butylbenzene	51		"	50.0		102	83-125				
tert-Butylbenzene	48		"	50.0		95.5	80-127				
Toluene	49		"	50.0		98.8	85-121				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.0</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.3</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>				

**LCS Dup (BF80581-BSD1)**

Prepared & Analyzed: 06/12/2018

1,2,4-Trimethylbenzene	45		ug/L	50.0		89.1	84-125		3.55	30
1,3,5-Trimethylbenzene	47		"	50.0		93.8	82-126		3.54	30
Benzene	48		"	50.0		96.9	77-127		3.61	30
Ethyl Benzene	48		"	50.0		95.3	84-125		1.75	30
Isopropylbenzene	47		"	50.0		94.3	81-127		2.39	30
Methyl tert-butyl ether (MTBE)	54		"	50.0		107	74-131		3.70	30
Naphthalene	51		"	50.0		103	86-141		0.774	30
n-Butylbenzene	46		"	50.0		92.2	80-130		3.79	30
n-Propylbenzene	46		"	50.0		92.6	74-136		2.94	30
o-Xylene	49		"	50.0		98.0	83-123		2.36	30
p- & m- Xylenes	93		"	100		93.2	82-128		2.22	30
p-Isopropyltoluene	45		"	50.0		90.2	85-125		2.99	30
sec-Butylbenzene	50		"	50.0		99.0	83-125		3.34	30
tert-Butylbenzene	47		"	50.0		95.0	80-127		0.525	30
Toluene	49		"	50.0		97.4	85-121		1.43	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.4</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.9</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>76-130</i>			



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BF80655 - EPA 5035A**

**Blank (BF80655-BLK1)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet										
1,3,5-Trimethylbenzene	ND	5.0	"										
Benzene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
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	"										
tert-Butylbenzene	ND	5.0	"										
Toluene	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>91.9</i>	<i>77-125</i>						
<i>Surrogate: Toluene-d8</i>	<i>50.5</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>85-120</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>53.3</i>		<i>"</i>	<i>50.0</i>		<i>107</i>	<i>76-130</i>						

**Blank (BF80655-BLK2)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet										
1,3,5-Trimethylbenzene	ND	5.0	"										
Benzene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
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	"										
tert-Butylbenzene	ND	5.0	"										
Toluene	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.7</i>	<i>77-125</i>						
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.7</i>	<i>85-120</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>76-130</i>						





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

**Batch BF80655 - EPA 5035A**

**LCS (BF80655-BS1)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	42		ug/L	50.0		83.8	84-125	Low Bias		
1,3,5-Trimethylbenzene	45		"	50.0		90.5	82-126			
Benzene	49		"	50.0		99.0	77-127			
Ethyl Benzene	47		"	50.0		93.9	84-125			
Isopropylbenzene	46		"	50.0		92.6	81-127			
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131			
Naphthalene	49		"	50.0		97.6	86-141			
n-Butylbenzene	41		"	50.0		82.2	80-130			
n-Propylbenzene	43		"	50.0		86.9	74-136			
o-Xylene	48		"	50.0		96.2	83-123			
p- & m- Xylenes	90		"	100		90.4	82-128			
p-Isopropyltoluene	43		"	50.0		85.2	85-125			
sec-Butylbenzene	48		"	50.0		95.5	83-125			
tert-Butylbenzene	46		"	50.0		91.3	80-127			
Toluene	47		"	50.0		94.8	85-121			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.1</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.6</i>		<i>"</i>	<i>50.0</i>		<i>103</i>	<i>76-130</i>			

**LCS Dup (BF80655-BSD1)**

Prepared & Analyzed: 06/13/2018

1,2,4-Trimethylbenzene	42		ug/L	50.0		84.1	84-125	0.381	30
1,3,5-Trimethylbenzene	45		"	50.0		89.2	82-126	1.40	30
Benzene	51		"	50.0		101	77-127	2.06	30
Ethyl Benzene	46		"	50.0		92.7	84-125	1.27	30
Isopropylbenzene	45		"	50.0		89.7	81-127	3.27	30
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131	0.464	30
Naphthalene	49		"	50.0		98.3	86-141	0.714	30
n-Butylbenzene	42		"	50.0		83.7	80-130	1.78	30
n-Propylbenzene	42		"	50.0		84.7	74-136	2.56	30
o-Xylene	48		"	50.0		95.9	83-123	0.333	30
p- & m- Xylenes	91		"	100		90.7	82-128	0.320	30
p-Isopropyltoluene	43		"	50.0		85.4	85-125	0.211	30
sec-Butylbenzene	48		"	50.0		95.1	83-125	0.378	30
tert-Butylbenzene	45		"	50.0		90.2	80-127	1.21	30
Toluene	47		"	50.0		94.4	85-121	0.486	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.3</i>	<i>77-125</i>		
<i>Surrogate: Toluene-d8</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.3</i>	<i>85-120</i>		
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.9</i>	<i>76-130</i>		



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								RPD			

**Batch BF81084 - EPA 5035A**

**Blank (BF81084-BLK1)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet										
1,3,5-Trimethylbenzene	ND	5.0	"										
Benzene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
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	"										
tert-Butylbenzene	ND	5.0	"										
Toluene	ND	5.0	"										
Xylenes, Total	ND	15	"										

<i>Surrogate: 1,2-Dichloroethane-d4</i>	41.2		ug/L	50.0		82.5	77-125						
<i>Surrogate: Toluene-d8</i>	49.3		"	50.0		98.6	85-120						
<i>Surrogate: p-Bromofluorobenzene</i>	52.8		"	50.0		106	76-130						

**Blank (BF81084-BLK2)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet										
1,3,5-Trimethylbenzene	ND	500	"										
Benzene	ND	500	"										
Ethyl Benzene	ND	500	"										
Isopropylbenzene	ND	500	"										
Methyl tert-butyl ether (MTBE)	ND	500	"										
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	"										
tert-Butylbenzene	ND	500	"										
Toluene	ND	500	"										
Xylenes, Total	ND	1500	"										

<i>Surrogate: 1,2-Dichloroethane-d4</i>	42.2		ug/L	50.0		84.5	77-125						
<i>Surrogate: Toluene-d8</i>	48.8		"	50.0		97.6	85-120						
<i>Surrogate: p-Bromofluorobenzene</i>	51.4		"	50.0		103	76-130						



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

**Batch BF81084 - EPA 5035A**

**LCS (BF81084-BS1)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	46		ug/L	50.0		91.3	84-125				
1,3,5-Trimethylbenzene	46		"	50.0		91.5	82-126				
Benzene	48		"	50.0		96.6	77-127				
Ethyl Benzene	47		"	50.0		93.5	84-125				
Isopropylbenzene	46		"	50.0		92.7	81-127				
Methyl tert-butyl ether (MTBE)	50		"	50.0		101	74-131				
Naphthalene	51		"	50.0		102	86-141				
n-Butylbenzene	47		"	50.0		93.1	80-130				
n-Propylbenzene	45		"	50.0		89.6	74-136				
o-Xylene	47		"	50.0		93.7	83-123				
p- & m- Xylenes	91		"	100		90.6	82-128				
p-Isopropyltoluene	48		"	50.0		96.2	85-125				
sec-Butylbenzene	49		"	50.0		98.1	83-125				
tert-Butylbenzene	48		"	50.0		95.6	80-127				
Toluene	47		"	50.0		93.9	85-121				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.6</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.2</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>76-130</i>				

**LCS Dup (BF81084-BSD1)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	45		ug/L	50.0		90.0	84-125		1.52	30
1,3,5-Trimethylbenzene	45		"	50.0		89.2	82-126		2.50	30
Benzene	47		"	50.0		94.9	77-127		1.80	30
Ethyl Benzene	45		"	50.0		90.0	84-125		3.75	30
Isopropylbenzene	46		"	50.0		91.8	81-127		0.932	30
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.4	74-131		10.6	30
Naphthalene	48		"	50.0		96.1	86-141		6.01	30
n-Butylbenzene	46		"	50.0		92.6	80-130		0.582	30
n-Propylbenzene	45		"	50.0		90.2	74-136		0.712	30
o-Xylene	45		"	50.0		90.7	83-123		3.30	30
p- & m- Xylenes	89		"	100		88.9	82-128		1.90	30
p-Isopropyltoluene	48		"	50.0		95.5	85-125		0.772	30
sec-Butylbenzene	49		"	50.0		98.7	83-125		0.549	30
tert-Butylbenzene	48		"	50.0		96.3	80-127		0.729	30
Toluene	45		"	50.0		90.6	85-121		3.62	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.2</i>		<i>"</i>	<i>50.0</i>		<i>90.3</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>			



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

**Batch BF81161 - EPA 5035A**

**Blank (BF81161-BLK1)**

Prepared & Analyzed: 06/21/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet								
1,3,5-Trimethylbenzene	ND	5.0	"								
Benzene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Naphthalene	3.8	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	"								
tert-Butylbenzene	ND	5.0	"								
Toluene	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>88.2</i>		<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>97.9</i>		<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.8</i>		<i>"</i>	<i>50.0</i>		<i>104</i>		<i>76-130</i>			

**Blank (BF81161-BLK2)**

Prepared & Analyzed: 06/21/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet								
1,3,5-Trimethylbenzene	ND	500	"								
Benzene	ND	500	"								
Ethyl Benzene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Naphthalene	280	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	"								
tert-Butylbenzene	ND	500	"								
Toluene	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>		<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.7</i>		<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>		<i>76-130</i>			



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

**Batch BF81161 - EPA 5035A**

**LCS (BF81161-BS1)**

Prepared & Analyzed: 06/21/2018

1,2,4-Trimethylbenzene	44		ug/L	50.0		88.2	84-125			
1,3,5-Trimethylbenzene	43		"	50.0		86.9	82-126			
Benzene	49		"	50.0		99.0	77-127			
Ethyl Benzene	45		"	50.0		89.3	84-125			
Isopropylbenzene	43		"	50.0		86.7	81-127			
Methyl tert-butyl ether (MTBE)	52		"	50.0		103	74-131			
Naphthalene	57		"	50.0		115	86-141			
n-Butylbenzene	44		"	50.0		88.4	80-130			
n-Propylbenzene	43		"	50.0		85.8	74-136			
o-Xylene	45		"	50.0		90.1	83-123			
p- & m- Xylenes	88		"	100		87.7	82-128			
p-Isopropyltoluene	46		"	50.0		91.3	85-125			
sec-Butylbenzene	47		"	50.0		93.4	83-125			
tert-Butylbenzene	45		"	50.0		90.2	80-127			
Toluene	45		"	50.0		90.1	85-121			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.0</i>		<i>"</i>	<i>50.0</i>		<i>94.0</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.4</i>		<i>"</i>	<i>50.0</i>		<i>96.7</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.7</i>	<i>76-130</i>			

**LCS Dup (BF81161-BSD1)**

Prepared & Analyzed: 06/21/2018

1,2,4-Trimethylbenzene	46		ug/L	50.0		92.0	84-125	4.17	30
1,3,5-Trimethylbenzene	46		"	50.0		91.5	82-126	5.18	30
Benzene	50		"	50.0		101	77-127	1.58	30
Ethyl Benzene	48		"	50.0		95.2	84-125	6.44	30
Isopropylbenzene	47		"	50.0		93.9	81-127	7.99	30
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	74-131	2.69	30
Naphthalene	54		"	50.0		108	86-141	6.28	30
n-Butylbenzene	46		"	50.0		91.3	80-130	3.23	30
n-Propylbenzene	46		"	50.0		92.7	74-136	7.73	30
o-Xylene	47		"	50.0		93.8	83-123	4.07	30
p- & m- Xylenes	94		"	100		93.9	82-128	6.86	30
p-Isopropyltoluene	49		"	50.0		97.5	85-125	6.55	30
sec-Butylbenzene	50		"	50.0		99.2	83-125	6.08	30
tert-Butylbenzene	48		"	50.0		95.8	80-127	6.06	30
Toluene	48		"	50.0		95.9	85-121	6.17	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.3</i>		<i>"</i>	<i>50.0</i>		<i>90.6</i>	<i>77-125</i>		
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.5</i>	<i>85-120</i>		
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-130</i>		



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BF81236 - EPA 5035A**

**Blank (BF81236-BLK1)**

Prepared & Analyzed: 06/22/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet										
1,3,5-Trimethylbenzene	ND	5.0	"										
Benzene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
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	"										
tert-Butylbenzene	ND	5.0	"										
Toluene	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.1</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.3</i>		<i>"</i>	<i>50.0</i>		<i>105</i>		<i>76-130</i>					

**Blank (BF81236-BLK2)**

Prepared & Analyzed: 06/22/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet										
1,3,5-Trimethylbenzene	ND	500	"										
Benzene	ND	500	"										
Ethyl Benzene	ND	500	"										
Isopropylbenzene	ND	500	"										
Methyl tert-butyl ether (MTBE)	ND	500	"										
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	"										
tert-Butylbenzene	ND	500	"										
Toluene	ND	500	"										
Xylenes, Total	ND	1500	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>41.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>83.7</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>		<i>76-130</i>					





Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF81236 - EPA 5035A

LCS (BF81236-BS1)

Prepared & Analyzed: 06/22/2018

1,2,4-Trimethylbenzene	45		ug/L	50.0		89.1	84-125				
1,3,5-Trimethylbenzene	45		"	50.0		90.3	82-126				
Benzene	48		"	50.0		95.6	77-127				
Ethyl Benzene	43		"	50.0		86.0	84-125				
Isopropylbenzene	45		"	50.0		89.4	81-127				
Methyl tert-butyl ether (MTBE)	48		"	50.0		96.1	74-131				
Naphthalene	50		"	50.0		99.8	86-141				
n-Butylbenzene	45		"	50.0		89.3	80-130				
n-Propylbenzene	45		"	50.0		89.2	74-136				
o-Xylene	44		"	50.0		87.2	83-123				
p- & m- Xylenes	84		"	100		84.0	82-128				
p-Isopropyltoluene	46		"	50.0		92.9	85-125				
sec-Butylbenzene	47		"	50.0		94.4	83-125				
tert-Butylbenzene	45		"	50.0		90.6	80-127				
Toluene	44		"	50.0		87.9	85-121				
Surrogate: 1,2-Dichloroethane-d4	45.2		"	50.0		90.4	77-125				
Surrogate: Toluene-d8	48.5		"	50.0		97.1	85-120				
Surrogate: p-Bromofluorobenzene	51.5		"	50.0		103	76-130				

LCS Dup (BF81236-BSD1)

Prepared & Analyzed: 06/22/2018

1,2,4-Trimethylbenzene	47		ug/L	50.0		94.1	84-125		5.48	30	
1,3,5-Trimethylbenzene	47		"	50.0		94.3	82-126		4.29	30	
Benzene	53		"	50.0		106	77-127		10.7	30	
Ethyl Benzene	47		"	50.0		94.3	84-125		9.12	30	
Isopropylbenzene	48		"	50.0		96.0	81-127		7.14	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		106	74-131		9.68	30	
Naphthalene	46		"	50.0		92.8	86-141		7.19	30	
n-Butylbenzene	46		"	50.0		91.1	80-130		1.95	30	
n-Propylbenzene	47		"	50.0		94.3	74-136		5.56	30	
o-Xylene	47		"	50.0		94.9	83-123		8.41	30	
p- & m- Xylenes	92		"	100		92.3	82-128		9.43	30	
p-Isopropyltoluene	47		"	50.0		94.9	85-125		2.07	30	
sec-Butylbenzene	50		"	50.0		100	83-125		6.08	30	
tert-Butylbenzene	48		"	50.0		96.3	80-127		6.14	30	
Toluene	49		"	50.0		97.1	85-121		9.93	30	
Surrogate: 1,2-Dichloroethane-d4	44.0		"	50.0		88.0	77-125				
Surrogate: Toluene-d8	48.8		"	50.0		97.6	85-120				
Surrogate: p-Bromofluorobenzene	50.7		"	50.0		101	76-130				



**Semivolatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

**Batch BF80629 - EPA 3550C**

**Blank (BF80629-BLK1)**

Prepared: 06/12/2018 Analyzed: 06/15/2018

Acenaphthene	ND	42	ug/kg wet								
Acenaphthylene	ND	42	"								
Anthracene	ND	42	"								
Benzo(a)anthracene	ND	42	"								
Benzo(a)pyrene	ND	42	"								
Benzo(b)fluoranthene	ND	42	"								
Benzo(g,h,i)perylene	ND	42	"								
Benzo(k)fluoranthene	ND	42	"								
Chrysene	ND	42	"								
Dibenzo(a,h)anthracene	ND	42	"								
Fluoranthene	ND	42	"								
Fluorene	ND	42	"								
Indeno(1,2,3-cd)pyrene	ND	42	"								
Naphthalene	ND	42	"								
Phenanthrene	ND	42	"								
Pyrene	ND	42	"								

<i>Surrogate: Nitrobenzene-d5</i>	630		"	1670		37.5	22-108				
<i>Surrogate: 2-Fluorobiphenyl</i>	620		"	1660		37.2	21-113				
<i>Surrogate: Terphenyl-d14</i>	670		"	1670		39.9	24-116				

**LCS (BF80629-BS1)**

Prepared: 06/12/2018 Analyzed: 06/15/2018

Acenaphthene	540	42	ug/kg wet	833		65.4	17-124				
Acenaphthylene	530	42	"	833		63.9	16-124				
Anthracene	560	42	"	833		67.3	24-124				
Benzo(a)anthracene	580	42	"	833		69.3	25-134				
Benzo(a)pyrene	640	42	"	833		76.2	29-144				
Benzo(b)fluoranthene	610	42	"	833		73.7	20-151				
Benzo(g,h,i)perylene	700	42	"	833		84.4	10-153				
Benzo(k)fluoranthene	600	42	"	833		71.7	10-148				
Chrysene	570	42	"	833		69.0	24-116				
Dibenzo(a,h)anthracene	760	42	"	833		91.3	17-147				
Fluoranthene	570	42	"	833		68.0	36-125				
Fluorene	550	42	"	833		65.5	16-130				
Indeno(1,2,3-cd)pyrene	540	42	"	833		64.4	10-155				
Naphthalene	610	42	"	833		73.5	20-121				
Phenanthrene	570	42	"	833		68.4	24-123				
Pyrene	520	42	"	833		61.9	24-132				

<i>Surrogate: Nitrobenzene-d5</i>	590		"	1670		35.2	22-108				
<i>Surrogate: 2-Fluorobiphenyl</i>	560		"	1660		33.6	21-113				
<i>Surrogate: Terphenyl-d14</i>	600		"	1670		36.1	24-116				



**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

**Batch BF80630 - EPA 3550C**

**Blank (BF80630-BLK2)**

Prepared: 06/12/2018 Analyzed: 06/13/2018

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0720		"	0.0673		107	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0620		"	0.0697		89.0	30-140				

**LCS (BF80630-BS2)**

Prepared: 06/12/2018 Analyzed: 06/13/2018

Aroclor 1016	0.392	0.0167	mg/kg wet	0.333		118	40-130				
Aroclor 1260	0.350	0.0167	"	0.333		105	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0780		"	0.0673		116	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0670		"	0.0697		96.2	30-140				



**Miscellaneous Physical Parameters - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80735 - % Solids Prep**

<b>Duplicate (BF80735-DUP1)</b>	*Source sample: 18F0273-08 (SB-04 10-12)						Prepared: 06/13/2018 Analyzed: 06/14/2018				
% Solids	81.4	0.100	%		81.6				0.253	20	



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18F0273-01	MW-01	40mL Vial with Stir Bar-Cool 4° C
18F0273-02	MW-02	40mL Vial with Stir Bar-Cool 4° C
18F0273-03	MW-03	40mL Vial with Stir Bar-Cool 4° C
18F0273-04	SB-01 8-9	40mL Vial with Stir Bar-Cool 4° C
18F0273-05	SB-02 7-9	40mL Vial with Stir Bar-Cool 4° C
18F0273-06	SB-03 7-8	40mL Vial with Stir Bar-Cool 4° C
18F0273-07	SB-04 7-9	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0273-08	SB-04 10-12	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0273-09	MW-04	40mL Vial with Stir Bar-Cool 4° C
18F0273-10	SB-05 6-8	40mL Vial with Stir Bar-Cool 4° C
18F0273-11	SB-06 7-9	40mL Vial with Stir Bar-Cool 4° C
18F0273-12	SB-07 4-5	40mL Vial with Stir Bar-Cool 4° C



## Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
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.
HT-01R	This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

### Definitions and Other Explanations

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

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

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





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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

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Revision Description: This report has been revised to include additional samples for VOA analysis.



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

# Field Chain-of-Custody Record

Page 1 of 2

York Project No. 18F0273

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

<b>YOUR INFORMATION</b>		<b>Report to:</b>		<b>Invoice To:</b>		<b>Your Project ID</b>		<b>Turn-Around Time</b>		<b>Report/Deliverable Type</b>	
Company: WCD	SAME Gina Wolfman	SAME Brenda	Name: _____		SB18035		RUSH-Same Day		Summary Report		X
Address: 24 Davis Avenue	Name: _____	Name: _____	Company: _____		Purchase Order #		RUSH-Next Day		QA Report		
Poughkeepsie, NY	Company: _____	Company: _____	Address: _____		SC18035		RUSH-Two Day		CT RCP		
Phone: (845) 452-1658	Address: _____	Address: _____	E-mail: _____		Samples from NY		RUSH-Three Day		CT RCP DQ/DUE Pkg		
Contact: Gina Wolfman	Matrix Codes	Matrix Codes	E-mail: _____		Semi Vols, Peas, PCBs		RUSH-Four Day		NY ASP A Package		
E-mail: _____	S - soil	S - soil	E-mail: _____		8270 G-625		Standard (5-7day)		NY ASP B Package		
	Water - wastewater	Water - wastewater	E-mail: _____		STARS list				NUDEP Reduced Deliv		
	DW - drinking water	DW - drinking water	E-mail: _____		Site Spec.				Excel		X
	Air-A ambient air	Air-A ambient air	E-mail: _____		Nassau Co.				NYSDEC EQUIS		
	Air-SV - soil vapor	Air-SV - soil vapor	E-mail: _____		Suffolk Co.				NUDEP SRP HazSite		
<p><b>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.</b></p> <p>Samples Collected/Authorized By (Signature) _____ Name (printed) _____</p>											

Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
MW-01	6/6/2018	Soil	CP-51 Full Petroleum Compound List (8270)	4, 40-ml vials
MW-02				1, 8-oz glass*
MW-03				
SB-01 8-9				
SB-02 7-9				
SB-03 7-8				
SB-04 7-9			CP-51 Full Petroleum Compound List (8270); VOCs (8260)	4, 40-ml vials
SB-04 10-12				1, 8-oz glass*

**Comments:**  
VOA kit: 4 X 40ml vials, laboratory supplied  
\*Hold 8-oz glass for possible additional analysis

4°C \_\_\_\_\_ Frozen \_\_\_\_\_ HCl \_\_\_\_\_ MeOH \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_ NaOH \_\_\_\_\_  
ZnAc \_\_\_\_\_ Ascorbic Acid \_\_\_\_\_ Other \_\_\_\_\_

Special Instructions  
Field Filtered   
Lab to Filter

Samples Relinquished By \_\_\_\_\_ Date/Time 6-7-18 11:00a  
Samples Relinquished By \_\_\_\_\_ Date/Time 6-7-18 1508

Samples Received in LAB by \_\_\_\_\_ Date/Time 6-7-18 1508  
Samples Received By \_\_\_\_\_ Date/Time 6-7-18 1508

Temperature on Receipt 3.7°C





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

# Field Chain-of-Custody Record

Page 2 of 2

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

York Project No. 18F0773

YOUR Information	Report to:	Invoice To:	Your Project ID	Turn-Around Time	Report/Deliverable Type
Company: <b>WCD</b> Address: 24 Davis Avenue Poughkeepsie, NY Phone.: (845) 452-1658 Contact: Gina Wolfman E-mail:	<b>SAME</b> Gina Wolfman Name: Company: Address: E-mail:	Name: <b>Brenda</b> Company: Address: E-mail:	<b>SB18035</b>  <b>Purchase Order #</b>  <b>SC18035</b> Samples from NY	RUSH-Same Day RUSH-Next Day RUSH-Two Day RUSH-Three Day RUSH-Four Day Standard (5-7 day) <b>X</b>	Summary Report QA Report CT RCP CT RCP DQADUE Pkg NY ASP A Package NY ASP B Package NJDEP Reduced Deliv Excel <b>X</b> NYSDEC EQUIS NJDEP SRP HazSite EQUIS GIS/KEY (std) YORK Regulatory Comp Excel compared to: <b>NYSDEC UU &amp; RRUSCO</b> OTHER:

**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.**

Volatiles	Semi Vol.	Pesticides	Metals	Misc. Org.	Full Lists
8260 list	8270 & 625	8082 PCB	PCRB8	TPH GRO	Phi Poll.
62-1	STARS list	8081 PCB	PP13 list	TPH DRO	TCL Organics
STARS list	UN Only	8151 Herb	TAL	CT ETPH	-AL MATCH
UTILX	Acids Only	CT RCP	CT 15 list	NY 310-13	Full TCLP
MULE	PALI list	App. IX	TAGM list	TPH 1664	Full App. IX
Ketones	TAGM list	Site Spec.	NJDEP list	Air TO14A	PAH 300-Base
Oxygenates	CT RCP list	SAP or TCLP	Total	Air TO15	PAH 300-Base
TCLP list	TAGM list	TCLP list	Dissolved	Air STARS	PAH 1500-Base
TAGM list	CT RCP list	5242	SAP or TCLP	Air VBI	Perchlorate
Arom only	NTDPP list	5022	TCLP Herb	Air TICs	NYSDEC Site
Fluor only	NTDPP list		Asph. Asph.	Medicants	NYSDEC Site
App. IX list	SPT or TCLP	608 Pest	ISU - a/c/w	Medium	TACM
8021B list					

Matrix Codes  
 S - soil  
 CW - wastewater  
 WW - groundwater  
 GW - ground water  
 DW - drinking water  
 Air - ambient air  
 Air-SV - soil vapor

Samples Collected/Authorized By (Signature)

Name (printed)

Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
MW-04	6/6/2018	Soil	NYSDEC CP-51 Full Petro. Comp List (8270); VOCs (8260)	4, 40-ml vials
SB-05 6-8			CP-51 Full Petroleum Compound List (8270)	1, 8-oz glass*
SB-06 7-9			CP-51 Full Petroleum Compound List (8270); PCBs	
SB-07 4-5				

**Comments:**

VOA kit: 4 X 40ml vials, laboratory supplied  
 \*Hold 8-oz glass for possible additional analysis

Preservation (check all applicable)  
 4°C \_\_\_\_\_ Frozen \_\_\_\_\_ HCl \_\_\_\_\_ MeOH \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>O \_\_\_\_\_ NaOH \_\_\_\_\_  
 ZnAc \_\_\_\_\_ Ascorbic Acid \_\_\_\_\_ Other \_\_\_\_\_

Special Instructions  
 Field Filtered   
 Lab to Filter

Samples Relinquished By: *[Signature]* Date/Time: 6-7-18 11:00  
 Samples Relinquished By: *[Signature]* Date/Time: 6-7-18 1508  
 Samples Received in LAB by: *[Signature]* Date/Time: 6-7-18 1508

Temperature on Receipt: 3.2 °C



# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 07/03/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18F0273

Revision No. 2.0

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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FAX (203) 357-0166

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

Report Date: 07/03/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18F0273

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 June 07, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18F0273-01	MW-01	Soil	06/06/2018	06/07/2018
18F0273-02	MW-02	Soil	06/06/2018	06/07/2018
18F0273-03	MW-03	Soil	06/06/2018	06/07/2018
18F0273-04	SB-01 8-9	Soil	06/06/2018	06/07/2018
18F0273-05	SB-02 7-9	Soil	06/06/2018	06/07/2018
18F0273-06	SB-03 7-8	Soil	06/06/2018	06/07/2018
18F0273-07	SB-04 7-9	Soil	06/06/2018	06/07/2018
18F0273-08	SB-04 10-12	Soil	06/06/2018	06/07/2018
18F0273-09	MW-04	Soil	06/06/2018	06/07/2018
18F0273-10	SB-05 6-8	Soil	06/06/2018	06/07/2018
18F0273-11	SB-06 7-9	Soil	06/06/2018	06/07/2018
18F0273-12	SB-07 4-5	Soil	06/06/2018	06/07/2018

## **General Notes for York Project (SDG) No.: 18F0273**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 07/03/2018







### Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

Log-in Notes:

Sample Notes: HT-01R

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
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>20000</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>600</b>	J	ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
71-43-2	Benzene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
100-41-4	<b>Ethyl Benzene</b>	<b>11000</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
98-82-8	<b>Isopropylbenzene</b>	<b>1400</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
91-20-3	<b>Naphthalene</b>	<b>5700</b>	B	ug/kg dry	320	1300	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
104-51-8	<b>n-Butylbenzene</b>	<b>2000</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
103-65-1	<b>n-Propylbenzene</b>	<b>5200</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
95-47-6	o-Xylene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 18:02	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>5300</b>		ug/kg dry	630	1300	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 18:02	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>640</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>760</b>		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
108-88-3	Toluene	ND		ug/kg dry	320	630	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
1330-20-7	<b>Xylenes, Total</b>	<b>5500</b>		ug/kg dry	950	1900	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 18:02	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	79.7 %	77-125								
2037-26-5	Surrogate: Toluene-d8	99.7 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	95.4 %	76-130								

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120 RESEARCH DRIVE	STRATFORD, CT 06615										
www.YORKLAB.com	(203) 325-1371										
							132-02 89th AVENUE				
							FAX (203) 357-0166				
									RICHMOND HILL, NY 11418		
									ClientServices@		



### Sample Information

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
120-12-7	Anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
218-01-9	Chrysene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
86-73-7	Fluorene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
91-20-3	<b>Naphthalene</b>	<b>1900</b>		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
85-01-8	<b>Phenanthrene</b>	<b>140</b>		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR
129-00-0	Pyrene	ND		ug/kg dry	47	94	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 15:59	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	27.7 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	32.9 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	34.8 %	24-116

**Total Solids**

**Log-in Notes:**

**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	<b>* % Solids</b>	<b>88.3</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



**Sample Information**

**Client Sample ID:** MW-01

**York Sample ID:** 18F0273-01

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Sample Information**

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
630-20-6	1,1,1,2-Tetrachloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
71-55-6	1,1,1-Trichloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
79-00-5	1,1,2-Trichloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-34-3	1,1-Dichloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-35-4	1,1-Dichloroethylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
87-61-6	1,2,3-Trichlorobenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
96-18-4	1,2,3-Trichloropropane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
120-82-1	1,2,4-Trichlorobenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
95-63-6	1,2,4-Trimethylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
106-93-4	1,2-Dibromoethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
95-50-1	1,2-Dichlorobenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
107-06-2	1,2-Dichloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
78-87-5	1,2-Dichloropropane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-67-8	1,3,5-Trimethylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
541-73-1	1,3-Dichlorobenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS



### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
106-46-7	1,4-Dichlorobenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
123-91-1	1,4-Dioxane	ND	HT-01R	ug/kg dry	39	77	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
78-93-3	2-Butanone	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
591-78-6	2-Hexanone	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-10-1	4-Methyl-2-pentanone	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
67-64-1	<b>Acetone</b>	<b>9.1</b>	CCV-E, HT-01R	ug/kg dry	3.9	7.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
107-02-8	Acrolein	ND	HT-01R	ug/kg dry	3.9	7.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
107-13-1	Acrylonitrile	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
71-43-2	<b>Benzene</b>	<b>1.9</b>	J, HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
74-97-5	Bromochloromethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-27-4	Bromodichloromethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-25-2	Bromoform	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
74-83-9	Bromomethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-15-0	Carbon disulfide	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
56-23-5	Carbon tetrachloride	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-90-7	Chlorobenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-00-3	Chloroethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
67-66-3	Chloroform	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
74-87-3	Chloromethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
156-59-2	cis-1,2-Dichloroethylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
110-82-7	Cyclohexane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
124-48-1	Dibromochloromethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS



### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
74-95-3	Dibromomethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-71-8	Dichlorodifluoromethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
100-41-4	Ethyl Benzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
87-68-3	Hexachlorobutadiene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
98-82-8	Isopropylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
79-20-9	Methyl acetate	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-87-2	Methylcyclohexane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-09-2	Methylene chloride	ND	HT-01R	ug/kg dry	3.9	7.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
104-51-8	n-Butylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
103-65-1	n-Propylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
95-47-6	o-Xylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
179601-23-1	p- & m- Xylenes	ND	HT-01R	ug/kg dry	3.9	7.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
99-87-6	p-Isopropyltoluene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
135-98-8	sec-Butylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
100-42-5	Styrene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
98-06-6	tert-Butylbenzene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
127-18-4	Tetrachloroethylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
108-88-3	Toluene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
156-60-5	trans-1,2-Dichloroethylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
79-01-6	Trichloroethylene	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS



### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
75-69-4	Trichlorofluoromethane	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
75-01-4	Vinyl Chloride	ND	HT-01R	ug/kg dry	1.9	3.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 17:33	SS
1330-20-7	Xylenes, Total	ND	HT-01R	ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 17:33	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	91.3 %	HT-01R			77-125					
2037-26-5	Surrogate: Toluene-d8	98.9 %	HT-01R			85-120					

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
120-12-7	Anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
218-01-9	Chrysene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
206-44-0	Fluoranthene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
86-73-7	Fluorene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
91-20-3	Naphthalene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
85-01-8	Phenanthrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR





### Sample Information

**Client Sample ID:** MW-02

**York Sample ID:** 18F0273-02

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 16:48	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	24.3 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	33.0 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	37.1 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	90.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
630-20-6	1,1,1,2-Tetrachloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
71-55-6	1,1,1-Trichloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
79-00-5	1,1,2-Trichloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-34-3	1,1-Dichloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-35-4	1,1-Dichloroethylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
87-61-6	1,2,3-Trichlorobenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
96-18-4	1,2,3-Trichloropropane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
95-63-6	1,2,4-Trimethylbenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
106-93-4	1,2-Dibromoethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
95-50-1	1,2-Dichlorobenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
107-06-2	1,2-Dichloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
78-87-5	1,2-Dichloropropane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
541-73-1	1,3-Dichlorobenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
106-46-7	1,4-Dichlorobenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
123-91-1	1,4-Dioxane	ND	HT-01R	ug/kg dry	50	100	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
78-93-3	<b>2-Butanone</b>	<b>3.7</b>	J, HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
591-78-6	2-Hexanone	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-10-1	4-Methyl-2-pentanone	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
67-64-1	<b>Acetone</b>	<b>21</b>	HT-01R , CCV-E	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
107-02-8	Acrolein	ND	HT-01R	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
107-13-1	Acrylonitrile	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
71-43-2	Benzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
74-97-5	Bromochloromethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-27-4	Bromodichloromethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-25-2	Bromoform	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
74-83-9	Bromomethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
75-15-0	Carbon disulfide	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
56-23-5	Carbon tetrachloride	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-90-7	Chlorobenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-00-3	Chloroethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
67-66-3	Chloroform	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
74-87-3	Chloromethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
156-59-2	cis-1,2-Dichloroethylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
110-82-7	Cyclohexane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
124-48-1	Dibromochloromethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
74-95-3	Dibromomethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-71-8	Dichlorodifluoromethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
100-41-4	Ethyl Benzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
87-68-3	Hexachlorobutadiene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
98-82-8	Isopropylbenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
79-20-9	Methyl acetate	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-87-2	<b>Methylcyclohexane</b>	<b>12</b>	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-09-2	Methylene chloride	ND	HT-01R	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
104-51-8	<b>n-Butylbenzene</b>	<b>2.5</b>	J, HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
103-65-1	<b>n-Propylbenzene</b>	<b>3.1</b>	J, HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
95-47-6	o-Xylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
179601-23-1	p- & m- Xylenes	ND	HT-01R	ug/kg dry	5.0	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
99-87-6	p-Isopropyltoluene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
135-98-8	sec-Butylbenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
100-42-5	Styrene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
98-06-6	tert-Butylbenzene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
127-18-4	Tetrachloroethylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
108-88-3	Toluene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
156-60-5	trans-1,2-Dichloroethylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
79-01-6	Trichloroethylene	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-69-4	Trichlorofluoromethane	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
75-01-4	Vinyl Chloride	ND	HT-01R	ug/kg dry	2.5	5.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 16:36	SS
1330-20-7	Xylenes, Total	ND	HT-01R	ug/kg dry	7.5	15	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 16:36	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	93.8 %	HT-01R	77-125
2037-26-5	Surrogate: Toluene-d8	97.4 %	HT-01R	85-120

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
120-12-7	Anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR



### Sample Information

**Client Sample ID:** MW-03

**York Sample ID:** 18F0273-03

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
218-01-9	<b>Chrysene</b>	<b>74</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
206-44-0	<b>Fluoranthene</b>	<b>63</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
86-73-7	Fluorene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
91-20-3	<b>Naphthalene</b>	<b>72</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
85-01-8	Phenanthrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
129-00-0	<b>Pyrene</b>	<b>62</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 17:37	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	29.8 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	37.6 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	38.0 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>82.2</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ

### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	74		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
108-67-8	1,3,5-Trimethylbenzene	7.8		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
71-43-2	Benzene	6.9		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
100-41-4	Ethyl Benzene	35		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
98-82-8	Isopropylbenzene	4.0	J	ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
91-20-3	Naphthalene	41	B	ug/kg dry	2.2	8.8	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
104-51-8	n-Butylbenzene	3.1	J	ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
103-65-1	n-Propylbenzene	13		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:43	SS
179601-23-1	p- & m- Xylenes	72		ug/kg dry	4.4	8.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
108-88-3	Toluene	ND		ug/kg dry	2.2	4.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
1330-20-7	Xylenes, Total	73		ug/kg dry	6.6	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 14:43	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	88.6 %			77-125						
2037-26-5	Surrogate: Toluene-d8	98.7 %			85-120						

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR





### Sample Information

**Client Sample ID:** SB-01 8-9

**York Sample ID:** 18F0273-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
120-12-7	Anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
218-01-9	Chrysene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
86-73-7	Fluorene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
129-00-0	Pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 18:26	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	24.2 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	31.2 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	35.5 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	87.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



**Sample Information**

**Client Sample ID:** SB-02 7-9

**York Sample ID:** 18F0273-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

Log-in Notes:

Sample Notes: HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	110000		ug/kg dry	1200	2400	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 13:08	SS
108-67-8	1,3,5-Trimethylbenzene	32000		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
71-43-2	Benzene	170		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
100-41-4	Ethyl Benzene	31000		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
98-82-8	Isopropylbenzene	4800		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
91-20-3	Naphthalene	530		ug/kg dry	3.9	16	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
104-51-8	n-Butylbenzene	7500		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
103-65-1	n-Propylbenzene	16000		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
95-47-6	o-Xylene	3400		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
179601-23-1	p- & m- Xylenes	120000		ug/kg dry	2400	4800	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 13:08	SS
99-87-6	p-Isopropyltoluene	1300		ug/kg dry	240	480	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:58	SS
135-98-8	sec-Butylbenzene	270		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
108-88-3	Toluene	53		ug/kg dry	3.9	7.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 15:44	SS
1330-20-7	Xylenes, Total	120000		ug/kg dry	3600	7300	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/22/2018 07:30	06/22/2018 13:08	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	55.8 %			77-125						
2037-26-5	Surrogate: Toluene-d8	93.1 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	95.3 %			76-130						

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** SB-02 7-9

**York Sample ID:** 18F0273-05

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
120-12-7	Anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
218-01-9	Chrysene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
86-73-7	Fluorene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
91-20-3	<b>Naphthalene</b>	<b>1500</b>		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
85-01-8	Phenanthrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
129-00-0	Pyrene	ND		ug/kg dry	47	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 19:14	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	25.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	34.8 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	40.6 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>89.4</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

Client Sample ID: SB-03 7-8

York Sample ID: 18F0273-06

York Project (SDG) No. 18F0273	Client Project ID SC18035	Matrix Soil	Collection Date/Time June 6, 2018 3:00 pm	Date Received 06/07/2018
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#### Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes: HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	170000		ug/kg dry	2000	4000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
108-67-8	1,3,5-Trimethylbenzene	56000		ug/kg dry	2000	4000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
71-43-2	Benzene	210		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
100-41-4	Ethyl Benzene	55000		ug/kg dry	2000	4000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
98-82-8	Isopropylbenzene	7500		ug/kg dry	200	400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
91-20-3	Naphthalene	22000	B	ug/kg dry	200	810	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
104-51-8	n-Butylbenzene	11000		ug/kg dry	200	400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
103-65-1	n-Propylbenzene	26000		ug/kg dry	200	400	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 18:30	SS
95-47-6	o-Xylene	210		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/20/2018 07:30	06/20/2018 16:12	SS
179601-23-1	p- & m- Xylenes	180000		ug/kg dry	4000	8100	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/22/2018 07:30	06/22/2018 12:40	SS
99-87-6	p-Isopropyltoluene	160		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
135-98-8	sec-Butylbenzene	180		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
108-88-3	Toluene	53		ug/kg dry	3.3	6.7	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/20/2018 07:30	06/20/2018 16:12	SS
1330-20-7	Xylenes, Total	180000		ug/kg dry	6100	12000	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/22/2018 07:30	06/22/2018 12:40	SS
	<b>Surrogate Recoveries</b>	<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	86.7 %			77-125						
2037-26-5	Surrogate: Toluene-d8	96.6 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	90.5 %			76-130						

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	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:** SB-03 7-8

**York Sample ID:** 18F0273-06

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
120-12-7	Anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
218-01-9	Chrysene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
206-44-0	Fluoranthene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
86-73-7	<b>Fluorene</b>	<b>55</b>	J	ug/kg dry	46	93	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
91-20-3	<b>Naphthalene</b>	<b>5000</b>		ug/kg dry	120	230	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 13:53	SR
85-01-8	<b>Phenanthrene</b>	<b>97</b>		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR
129-00-0	Pyrene	ND		ug/kg dry	46	93	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:03	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	34.8 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	36.3 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	43.0 %	24-116

**Total Solids**

**Log-in Notes:**

**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	<b>89.5</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 15:23	06/14/2018 14:55	TAJ



### Sample Information

**Client Sample ID:** SB-03 7-8

**York Sample ID:** 18F0273-06

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
18F0273	SC18035	Soil	June 6, 2018 3:00 pm	06/07/2018

### Volatile Organics, 8260 - Comprehensive

### Log-in Notes:

### 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
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS





### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	4900	9900	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
78-93-3	2-Butanone	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
591-78-6	2-Hexanone	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
67-64-1	Acetone	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
107-02-8	Acrolein	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
71-43-2	Benzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-25-2	Bromoform	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
74-83-9	Bromomethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-00-3	Chloroethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
67-66-3	Chloroform	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
74-87-3	Chloromethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
110-82-7	Cyclohexane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS



### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
74-95-3	Dibromomethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
100-41-4	<b>Ethyl Benzene</b>	<b>1200</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
98-82-8	<b>Isopropylbenzene</b>	<b>1600</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
79-20-9	Methyl acetate	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-87-2	<b>Methylcyclohexane</b>	<b>16000</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-09-2	Methylene chloride	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
104-51-8	<b>n-Butylbenzene</b>	<b>3800</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
103-65-1	<b>n-Propylbenzene</b>	<b>5200</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
95-47-6	o-Xylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	490	990	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>460</b>	J	ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>1800</b>		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
100-42-5	Styrene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
108-88-3	Toluene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS



### Sample Information

**Client Sample ID:** SB-04 7-9

**York Sample ID:** 18F0273-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	250	490	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 21:19	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	740	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 21:19	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
2037-26-5	Surrogate: Toluene-d8	95.3 %			85-120						

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	180		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
120-12-7	Anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
218-01-9	Chrysene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
206-44-0	Fluoranthene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
86-73-7	Fluorene	360		ug/kg dry	50	99	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
91-20-3	Naphthalene	5200		ug/kg dry	120	250	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 14:43	SR
85-01-8	Phenanthrene	570		ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR
129-00-0	Pyrene	85	J	ug/kg dry	50	99	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 20:52	SR



Sample Information

Client Sample ID: SB-04 7-9

York Sample ID: 18F0273-07

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18F0273, SC18035, Soil, June 6, 2018 3:00 pm, 06/07/2018

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

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Includes Surrogate Recoveries for Nitrobenzene-d5, 2-Fluorobiphenyl, and Terphenyl-d14.

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Shows % Solids result of 83.9.

Sample Information

Client Sample ID: SB-04 10-12

York Sample ID: 18F0273-08

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18F0273, SC18035, Soil, June 6, 2018 3:00 pm, 06/07/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOD/MDL, LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Lists various volatile organics like Tetrachloroethane, Trichloroethane, etc.



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>38000</b>		ug/kg dry	2500	5100	1000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/13/2018 10:48	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>12000</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	5100	10000	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
78-93-3	2-Butanone	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
591-78-6	2-Hexanone	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
67-64-1	Acetone	ND		ug/kg dry	510	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
107-02-8	Acrolein	ND		ug/kg dry	510	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
71-43-2	Benzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-25-2	Bromoform	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
74-83-9	Bromomethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
56-23-5	Carbon tetrachloride	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-00-3	Chloroethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
67-66-3	Chloroform	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
74-87-3	Chloromethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
110-82-7	Cyclohexane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
74-95-3	Dibromomethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
100-41-4	<b>Ethyl Benzene</b>	<b>8400</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
98-82-8	<b>Isopropylbenzene</b>	<b>3800</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
79-20-9	Methyl acetate	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-87-2	<b>Methylcyclohexane</b>	<b>20000</b>		ug/kg dry	2500	5100	1000	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/13/2018 10:48	SS
75-09-2	Methylene chloride	ND		ug/kg dry	510	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
104-51-8	<b>n-Butylbenzene</b>	<b>7400</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
103-65-1	<b>n-Propylbenzene</b>	<b>13000</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
95-47-6	<b>o-Xylene</b>	<b>1000</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>17000</b>	SCAL-E	ug/kg dry	510	1000	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
99-87-6	<b>p-Isopropyltoluene</b>	<b>1300</b>		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS





### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
135-98-8	sec-Butylbenzene	2600		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
100-42-5	Styrene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
108-88-3	Toluene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	250	510	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:47	SS
1330-20-7	<b>Xylenes, Total</b>	<b>18000</b>	SCAL-E	ug/kg dry	760	1500	100	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:47	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
2037-26-5	Surrogate: Toluene-d8	96.5 %	85-120								

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	230		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
120-12-7	Anthracene	64	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR



### Sample Information

**Client Sample ID:** SB-04 10-12

**York Sample ID:** 18F0273-08

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
218-01-9	<b>Chrysene</b>	<b>52</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
206-44-0	<b>Fluoranthene</b>	<b>99</b>	J	ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
86-73-7	<b>Fluorene</b>	<b>440</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
91-20-3	<b>Naphthalene</b>	<b>13000</b>		ug/kg dry	260	510	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/17/2018 15:32	SR
85-01-8	<b>Phenanthrene</b>	<b>710</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
129-00-0	<b>Pyrene</b>	<b>140</b>		ug/kg dry	51	100	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 21:41	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	55.8 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	37.3 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	37.9 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>* % Solids</b>	<b>81.6</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ

### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

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



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	41	82	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
67-64-1	Acetone	11	CCV-E	ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
107-02-8	Acrolein	ND		ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
71-43-2	Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-25-2	Bromoform	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
67-66-3	Chloroform	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
79-20-9	Methyl acetate	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
104-51-8	<b>n-Butylbenzene</b>	<b>15</b>		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.1	8.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
135-98-8	<b>sec-Butylbenzene</b>	<b>4.8</b>		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
100-42-5	Styrene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
108-88-3	Toluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/12/2018 07:30	06/12/2018 20:16	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/12/2018 07:30	06/12/2018 20:16	SS
<b>Surrogate Recoveries</b>		<b>Result</b>		<b>Acceptance Range</b>							
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	99.8 %		77-125							
2037-26-5	Surrogate: Toluene-d8	98.2 %		85-120							
460-00-4	Surrogate: p-Bromofluorobenzene	70.1 %	S-08	76-130							



### Sample Information

**Client Sample ID:** MW-04

**York Sample ID:** 18F0273-09

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
120-12-7	Anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
218-01-9	Chrysene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
86-73-7	Fluorene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
129-00-0	Pyrene	ND		ug/kg dry	48	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 22:30	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	22.3 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	29.1 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	30.7 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	87.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ





### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes: HT-01R**

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
95-63-6	1,2,4-Trimethylbenzene	21000		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
108-67-8	1,3,5-Trimethylbenzene	4100		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
71-43-2	Benzene	530	J	ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
98-82-8	Isopropylbenzene	2000		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
91-20-3	Naphthalene	2700	B	ug/kg dry	490	1900	200	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
104-51-8	n-Butylbenzene	2800		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
103-65-1	n-Propylbenzene	6400		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
95-47-6	o-Xylene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 19:27	SS
179601-23-1	p- & m- Xylenes	1000	J	ug/kg dry	970	1900	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 19:27	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
135-98-8	sec-Butylbenzene	940	J	ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
108-88-3	Toluene	ND		ug/kg dry	490	970	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	1500	2900	200	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 19:27	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	81.0 %	77-125								
2037-26-5	Surrogate: Toluene-d8	96.6 %	85-120								

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	52	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR



### Sample Information

**Client Sample ID:** SB-05 6-8

**York Sample ID:** 18F0273-10

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
208-96-8	Acenaphthylene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
120-12-7	<b>Anthracene</b>	<b>90</b>	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
218-01-9	Chrysene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
206-44-0	<b>Fluoranthene</b>	<b>91</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
86-73-7	<b>Fluorene</b>	<b>170</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
91-20-3	Naphthalene	ND		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
85-01-8	<b>Phenanthrene</b>	<b>340</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
129-00-0	<b>Pyrene</b>	<b>320</b>		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/15/2018 23:19	SR
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
4165-60-0	Surrogate: Nitrobenzene-d5	32.4 %			22-108						
321-60-8	Surrogate: 2-Fluorobiphenyl	34.7 %			21-113						
1718-51-0	Surrogate: Terphenyl-d14	41.2 %			24-116						

**Total Solids**

**Log-in Notes:**

**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	<b>* % Solids</b>	<b>91.6</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



### Sample Information

**Client Sample ID:** SB-06 7-9

**York Sample ID:** 18F0273-11

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:** HT-01R

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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
71-43-2	Benzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
91-20-3	Naphthalene	ND		ug/kg dry	1.9	7.6	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.8	7.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 14:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
108-88-3	Toluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.7	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 14:14	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	90.2 %	77-125
2037-26-5	Surrogate: Toluene-d8	98.9 %	85-120

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR



### Sample Information

**Client Sample ID:** SB-06 7-9

**York Sample ID:** 18F0273-11

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

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

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-12-7	Anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
218-01-9	Chrysene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
86-73-7	Fluorene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
91-20-3	Naphthalene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
85-01-8	Phenanthrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
129-00-0	Pyrene	ND		ug/kg dry	47	95	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:08	SR
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
4165-60-0	Surrogate: Nitrobenzene-d5	23.7 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	36.2 %	21-113								
1718-51-0	Surrogate: Terphenyl-d14	39.4 %	24-116								

**Total Solids**

**Log-in Notes:**

**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	<b>87.8</b>		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
630-20-6	1,1,1,2-Tetrachloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
71-55-6	1,1,1-Trichloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
79-00-5	1,1,2-Trichloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-34-3	1,1-Dichloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-35-4	1,1-Dichloroethylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
87-61-6	1,2,3-Trichlorobenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
96-18-4	1,2,3-Trichloropropane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS
120-82-1	1,2,4-Trichlorobenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
95-63-6	1,2,4-Trimethylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
106-93-4	1,2-Dibromoethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
95-50-1	1,2-Dichlorobenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
107-06-2	1,2-Dichloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
78-87-5	1,2-Dichloropropane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-67-8	1,3,5-Trimethylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
541-73-1	1,3-Dichlorobenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
106-46-7	1,4-Dichlorobenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
123-91-1	1,4-Dioxane	ND	HT-01R	ug/kg dry	43	86	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
78-93-3	2-Butanone	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
591-78-6	2-Hexanone	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-10-1	4-Methyl-2-pentanone	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS



### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
67-64-1	Acetone	12	CCV-E, HT-01R	ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
107-02-8	Acrolein	ND	HT-01R	ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
107-13-1	Acrylonitrile	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
71-43-2	Benzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
74-97-5	Bromochloromethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-27-4	Bromodichloromethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-25-2	Bromoform	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
74-83-9	Bromomethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-15-0	Carbon disulfide	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
56-23-5	Carbon tetrachloride	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-90-7	Chlorobenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-00-3	Chloroethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
67-66-3	Chloroform	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
74-87-3	Chloromethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
156-59-2	cis-1,2-Dichloroethylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
10061-01-5	cis-1,3-Dichloropropylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
110-82-7	Cyclohexane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
124-48-1	Dibromochloromethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
74-95-3	Dibromomethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-71-8	Dichlorodifluoromethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
100-41-4	Ethyl Benzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
87-68-3	Hexachlorobutadiene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
98-82-8	Isopropylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS





### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0273

SC18035

Soil

June 6, 2018 3:00 pm

06/07/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
79-20-9	Methyl acetate	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-87-2	Methylcyclohexane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-09-2	<b>Methylene chloride</b>	<b>5.2</b>	J, B, HT-01R	ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
104-51-8	n-Butylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
103-65-1	n-Propylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
95-47-6	o-Xylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
179601-23-1	p- & m- Xylenes	ND	HT-01R	ug/kg dry	4.3	8.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
99-87-6	p-Isopropyltoluene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
135-98-8	sec-Butylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
100-42-5	Styrene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-65-0	tert-Butyl alcohol (TBA)	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
98-06-6	tert-Butylbenzene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
127-18-4	Tetrachloroethylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
108-88-3	Toluene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
156-60-5	trans-1,2-Dichloroethylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
10061-02-6	trans-1,3-Dichloropropylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
79-01-6	Trichloroethylene	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-69-4	Trichlorofluoromethane	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
75-01-4	Vinyl Chloride	ND	HT-01R	ug/kg dry	2.2	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/21/2018 07:30	06/21/2018 13:46	SS
1330-20-7	Xylenes, Total	ND	HT-01R	ug/kg dry	6.5	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/21/2018 07:30	06/21/2018 13:46	SS

**Surrogate Recoveries**

**Result**

**Acceptance Range**

17060-07-0	Surrogate: 1,2-Dichloroethane-d4	88.9 %	HT-01R	77-125
2037-26-5	Surrogate: Toluene-d8	95.0 %	HT-01R	85-120
460-00-4	Surrogate: p-Bromofluorobenzene	99.9 %	HT-01R	76-130



### Sample Information

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Semi-Volatiles, CP-51 (formerly STARS) List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

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	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
120-12-7	Anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
218-01-9	Chrysene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
206-44-0	Fluoranthene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
86-73-7	Fluorene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
91-20-3	Naphthalene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
85-01-8	Phenanthrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR
129-00-0	Pyrene	ND		ug/kg dry	48	96	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/12/2018 14:31	06/16/2018 00:58	SR

**Surrogate Recoveries**

**Result**

**Acceptance Range**

4165-60-0	Surrogate: Nitrobenzene-d5	23.5 %	22-108
321-60-8	Surrogate: 2-Fluorobiphenyl	31.9 %	21-113
1718-51-0	Surrogate: Terphenyl-d14	37.6 %	24-116

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA



**Sample Information**

**Client Sample ID:** SB-07 4-5

**York Sample ID:** 18F0273-12

<u>York Project (SDG) No.</u> 18F0273	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 6, 2018 3:00 pm	<u>Date Received</u> 06/07/2018
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**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/12/2018 14:08	06/13/2018 20:49	SA
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0192	1	EPA 8082A Certifications:	06/12/2018 14:08	06/13/2018 20:49	SA
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
877-09-8	Surrogate: Tetrachloro-m-xylene	68.8 %	30-140							
2051-24-3	Surrogate: Decachlorobiphenyl	56.0 %	30-140							

**Total Solids**

**Log-in Notes:**

**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	86.7		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2018 19:27	06/14/2018 15:02	TAJ



## Analytical Batch Summary

**Batch ID:** BF80581      **Preparation Method:** EPA 5035A      **Prepared By:** RDS

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-07	SB-04 7-9	06/12/18
18F0273-08	SB-04 10-12	06/12/18
18F0273-09	MW-04	06/12/18
BF80581-BLK1	Blank	06/12/18
BF80581-BLK2	Blank	06/12/18
BF80581-BS1	LCS	06/12/18
BF80581-BSD1	LCS Dup	06/12/18

**Batch ID:** BF80629      **Preparation Method:** EPA 3550C      **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/12/18
18F0273-02	MW-02	06/12/18
18F0273-03	MW-03	06/12/18
18F0273-04	SB-01 8-9	06/12/18
18F0273-05	SB-02 7-9	06/12/18
18F0273-06	SB-03 7-8	06/12/18
18F0273-06RE1	SB-03 7-8	06/12/18
18F0273-07	SB-04 7-9	06/12/18
18F0273-07RE1	SB-04 7-9	06/12/18
18F0273-08	SB-04 10-12	06/12/18
18F0273-08RE1	SB-04 10-12	06/12/18
18F0273-09	MW-04	06/12/18
18F0273-10	SB-05 6-8	06/12/18
18F0273-11	SB-06 7-9	06/12/18
18F0273-12	SB-07 4-5	06/12/18
BF80629-BLK1	Blank	06/12/18
BF80629-BS1	LCS	06/12/18

**Batch ID:** BF80630      **Preparation Method:** EPA 3550C      **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-12	SB-07 4-5	06/12/18
BF80630-BLK2	Blank	06/12/18
BF80630-BS2	LCS	06/12/18

**Batch ID:** BF80655      **Preparation Method:** EPA 5035A      **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-08RE1	SB-04 10-12	06/12/18
BF80655-BLK1	Blank	06/13/18
BF80655-BLK2	Blank	06/13/18
BF80655-BS1	LCS	06/13/18
BF80655-BSD1	LCS Dup	06/13/18



**Batch ID:** BF80724

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/13/18
18F0273-02	MW-02	06/13/18
18F0273-03	MW-03	06/13/18
18F0273-04	SB-01 8-9	06/13/18
18F0273-05	SB-02 7-9	06/13/18
18F0273-06	SB-03 7-8	06/13/18
18F0273-07	SB-04 7-9	06/13/18

**Batch ID:** BF80735

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-08	SB-04 10-12	06/13/18
18F0273-09	MW-04	06/13/18
18F0273-10	SB-05 6-8	06/13/18
18F0273-11	SB-06 7-9	06/13/18
18F0273-12	SB-07 4-5	06/13/18
BF80735-DUP1	Duplicate	06/13/18

**Batch ID:** BF81084

**Preparation Method:** EPA 5035A

**Prepared By:** SS

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-05	SB-02 7-9	06/20/18
18F0273-06	SB-03 7-8	06/20/18
BF81084-BLK1	Blank	06/20/18
BF81084-BLK2	Blank	06/20/18
BF81084-BS1	LCS	06/20/18
BF81084-BSD1	LCS Dup	06/20/18

**Batch ID:** BF81161

**Preparation Method:** EPA 5035A

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-01	MW-01	06/21/18
18F0273-02	MW-02	06/21/18
18F0273-03	MW-03	06/21/18
18F0273-04	SB-01 8-9	06/21/18
18F0273-05RE1	SB-02 7-9	06/21/18
18F0273-06RE1	SB-03 7-8	06/21/18
18F0273-10	SB-05 6-8	06/21/18
18F0273-11	SB-06 7-9	06/21/18
18F0273-12	SB-07 4-5	06/21/18
BF81161-BLK1	Blank	06/21/18
BF81161-BLK2	Blank	06/21/18
BF81161-BS1	LCS	06/21/18
BF81161-BSD1	LCS Dup	06/21/18



**Batch ID:** BF81236

**Preparation Method:** EPA 5035A

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0273-05RE2	SB-02 7-9	06/22/18
18F0273-06RE2	SB-03 7-8	06/22/18
BF81236-BLK1	Blank	06/22/18
BF81236-BLK2	Blank	06/22/18
BF81236-BS1	LCS	06/22/18
BF81236-BSD1	LCS Dup	06/22/18





**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80581 - EPA 5035A**

**Blank (BF80581-BLK1)**

Prepared & Analyzed: 06/12/2018

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	"								
1,2,3-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	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	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	"								
Cyclohexane	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 acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF80581 - EPA 5035A**

**Blank (BF80581-BLK1)**

Prepared & Analyzed: 06/12/2018

n-Butylbenzene	ND	5.0	ug/kg wet								
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-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.3		ug/L	50.0		96.6		77-125			
<i>Surrogate: Toluene-d8</i>	50.2		"	50.0		100		85-120			
<i>Surrogate: p-Bromofluorobenzene</i>	54.4		"	50.0		109		76-130			

**Blank (BF80581-BLK2)**

Prepared & Analyzed: 06/12/2018

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	"								
1,2,3-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	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								
Bromochloromethane	ND	500	"								
Bromodichloromethane	ND	500	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80581 - EPA 5035A**

**Blank (BF80581-BLK2)**

Prepared & Analyzed: 06/12/2018

Bromoform	ND	500	ug/kg wet								
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	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	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-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								

Surrogate: 1,2-Dichloroethane-d4	47.9		ug/L	50.0		95.7	77-125				
Surrogate: Toluene-d8	48.9		"	50.0		97.8	85-120				
Surrogate: p-Bromofluorobenzene	52.1		"	50.0		104	76-130				



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit	Units							Level	Result

**Batch BF80581 - EPA 5035A**

**LCS (BF80581-BS1)**

Prepared & Analyzed: 06/12/2018

1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.9	75-129				
1,1,1-Trichloroethane	49		"	50.0		98.4	71-137				
1,1,2,2-Tetrachloroethane	52		"	50.0		104	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	42		"	50.0		84.3	58-146				
1,1,2-Trichloroethane	50		"	50.0		101	83-123				
1,1-Dichloroethane	51		"	50.0		102	75-130				
1,1-Dichloroethylene	41		"	50.0		82.3	64-137				
1,2,3-Trichlorobenzene	47		"	50.0		94.6	81-140				
1,2,3-Trichloropropane	49		"	50.0		97.3	81-126				
1,2,4-Trichlorobenzene	46		"	50.0		92.7	80-141				
1,2,4-Trimethylbenzene	46		"	50.0		92.3	84-125				
1,2-Dibromo-3-chloropropane	57		"	50.0		113	74-142				
1,2-Dibromoethane	52		"	50.0		103	86-123				
1,2-Dichlorobenzene	47		"	50.0		93.5	85-122				
1,2-Dichloroethane	49		"	50.0		98.5	71-133				
1,2-Dichloropropane	52		"	50.0		104	81-122				
1,3,5-Trimethylbenzene	49		"	50.0		97.1	82-126				
1,3-Dichlorobenzene	45		"	50.0		89.5	84-124				
1,4-Dichlorobenzene	46		"	50.0		92.2	84-124				
1,4-Dioxane	1200		"	1050		111	10-228				
2-Butanone	43		"	50.0		86.1	58-147				
2-Hexanone	51		"	50.0		103	70-139				
4-Methyl-2-pentanone	55		"	50.0		109	72-132				
Acetone	26		"	50.0		52.8	36-155				
Acrolein	47		"	50.0		93.6	10-238				
Acrylonitrile	55		"	50.0		110	66-141				
Benzene	50		"	50.0		100	77-127				
Bromochloromethane	49		"	50.0		98.6	74-129				
Bromodichloromethane	51		"	50.0		101	81-124				
Bromoform	53		"	50.0		105	80-136				
Bromomethane	38		"	50.0		75.8	32-177				
Carbon disulfide	50		"	50.0		99.9	10-136				
Carbon tetrachloride	49		"	50.0		97.3	66-143				
Chlorobenzene	49		"	50.0		97.1	86-120				
Chloroethane	42		"	50.0		84.3	51-142				
Chloroform	50		"	50.0		101	76-131				
Chloromethane	50		"	50.0		99.7	49-132				
cis-1,2-Dichloroethylene	50		"	50.0		100	74-132				
cis-1,3-Dichloropropylene	51		"	50.0		103	81-129				
Cyclohexane	51		"	50.0		102	70-130				
Dibromochloromethane	52		"	50.0		104	10-200				
Dibromomethane	51		"	50.0		101	83-124				
Dichlorodifluoromethane	61		"	50.0		122	28-158				
Ethyl Benzene	48		"	50.0		97.0	84-125				
Hexachlorobutadiene	47		"	50.0		94.8	83-133				
Isopropylbenzene	48		"	50.0		96.6	81-127				
Methyl acetate	32		"	50.0		64.9	41-143				
Methyl tert-butyl ether (MTBE)	56		"	50.0		111	74-131				
Methylcyclohexane	51		"	50.0		103	70-130				
Methylene chloride	41		"	50.0		82.5	57-141				
n-Butylbenzene	48		"	50.0		95.7	80-130				



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BF80581 - EPA 5035A</b>										
<b>LCS (BF80581-BS1)</b>										
Prepared & Analyzed: 06/12/2018										
n-Propylbenzene	48		ug/L	50.0		95.3	74-136			
o-Xylene	50		"	50.0		100	83-123			
p- & m- Xylenes	95		"	100		95.2	82-128			
p-Isopropyltoluene	46		"	50.0		92.9	85-125			
sec-Butylbenzene	51		"	50.0		102	83-125			
Styrene	46		"	50.0		92.9	86-126			
tert-Butyl alcohol (TBA)	280		"	250		113	70-130			
tert-Butylbenzene	48		"	50.0		95.5	80-127			
Tetrachloroethylene	43		"	50.0		86.5	80-129			
Toluene	49		"	50.0		98.8	85-121			
trans-1,2-Dichloroethylene	53		"	50.0		106	72-132			
trans-1,3-Dichloropropylene	52		"	50.0		104	78-132			
Trichloroethylene	52		"	50.0		105	84-123			
Trichlorofluoromethane	39		"	50.0		77.8	62-140			
Vinyl Chloride	45		"	50.0		89.0	52-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.0</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.1</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.3</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>			
<b>LCS Dup (BF80581-BSD1)</b>										
Prepared & Analyzed: 06/12/2018										
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		96.6	75-129		0.351	30
1,1,1-Trichloroethane	48		"	50.0		97.0	71-137		1.47	30
1,1,2,2-Tetrachloroethane	51		"	50.0		101	79-129		3.31	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	41		"	50.0		82.3	58-146		2.40	30
1,1,2-Trichloroethane	49		"	50.0		98.6	83-123		1.99	30
1,1-Dichloroethane	50		"	50.0		100	75-130		1.95	30
1,1-Dichloroethylene	40		"	50.0		79.6	64-137		3.31	30
1,2,3-Trichlorobenzene	49		"	50.0		97.7	81-140		3.25	30
1,2,3-Trichloropropane	47		"	50.0		94.8	81-126		2.62	30
1,2,4-Trichlorobenzene	47		"	50.0		93.8	80-141		1.20	30
1,2,4-Trimethylbenzene	45		"	50.0		89.1	84-125		3.55	30
1,2-Dibromo-3-chloropropane	51		"	50.0		103	74-142		10.1	30
1,2-Dibromoethane	52		"	50.0		104	86-123		1.33	30
1,2-Dichlorobenzene	47		"	50.0		94.0	85-122		0.469	30
1,2-Dichloroethane	49		"	50.0		98.0	71-133		0.550	30
1,2-Dichloropropane	50		"	50.0		100	81-122		3.62	30
1,3,5-Trimethylbenzene	47		"	50.0		93.8	82-126		3.54	30
1,3-Dichlorobenzene	45		"	50.0		90.5	84-124		1.20	30
1,4-Dichlorobenzene	47		"	50.0		93.5	84-124		1.38	30
1,4-Dioxane	1100		"	1050		103	10-228		7.10	30
2-Butanone	45		"	50.0		90.8	58-147		5.34	30
2-Hexanone	49		"	50.0		98.7	70-139		4.17	30
4-Methyl-2-pentanone	53		"	50.0		106	72-132		3.12	30
Acetone	25		"	50.0		50.4	36-155		4.65	30
Acrolein	45		"	50.0		90.5	10-238		3.32	30
Acrylonitrile	51		"	50.0		102	66-141		6.88	30
Benzene	48		"	50.0		96.9	77-127		3.61	30
Bromochloromethane	47		"	50.0		94.6	74-129		4.22	30
Bromodichloromethane	51		"	50.0		102	81-124		0.846	30
Bromoform	53		"	50.0		106	80-136		0.437	30
Bromomethane	38		"	50.0		75.7	32-177		0.0264	30



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
<b>Batch BF80581 - EPA 5035A</b>										
<b>LCS Dup (BF80581-BSD1)</b>										
Prepared & Analyzed: 06/12/2018										
Carbon disulfide	47		ug/L	50.0	94.3	10-136			5.77	30
Carbon tetrachloride	48		"	50.0	96.5	66-143			0.764	30
Chlorobenzene	48		"	50.0	95.8	86-120			1.35	30
Chloroethane	42		"	50.0	83.1	51-142			1.43	30
Chloroform	50		"	50.0	100	76-131			0.777	30
Chloromethane	47		"	50.0	94.2	49-132			5.65	30
cis-1,2-Dichloroethylene	49		"	50.0	98.9	74-132			1.65	30
cis-1,3-Dichloropropylene	52		"	50.0	103	81-129			0.699	30
Cyclohexane	48		"	50.0	96.5	70-130			5.44	30
Dibromochloromethane	53		"	50.0	106	10-200			1.53	30
Dibromomethane	50		"	50.0	100	83-124			1.03	30
Dichlorodifluoromethane	56		"	50.0	111	28-158			9.40	30
Ethyl Benzene	48		"	50.0	95.3	84-125			1.75	30
Hexachlorobutadiene	49		"	50.0	97.8	83-133			3.18	30
Isopropylbenzene	47		"	50.0	94.3	81-127			2.39	30
Methyl acetate	31		"	50.0	62.3	41-143			4.02	30
Methyl tert-butyl ether (MTBE)	54		"	50.0	107	74-131			3.70	30
Methylcyclohexane	51		"	50.0	101	70-130			1.74	30
Methylene chloride	38		"	50.0	75.6	57-141			8.78	30
n-Butylbenzene	46		"	50.0	92.2	80-130			3.79	30
n-Propylbenzene	46		"	50.0	92.6	74-136			2.94	30
o-Xylene	49		"	50.0	98.0	83-123			2.36	30
p- & m- Xylenes	93		"	100	93.2	82-128			2.22	30
p-Isopropyltoluene	45		"	50.0	90.2	85-125			2.99	30
sec-Butylbenzene	50		"	50.0	99.0	83-125			3.34	30
Styrene	46		"	50.0	91.9	86-126			1.06	30
tert-Butyl alcohol (TBA)	270		"	250	110	70-130			3.53	30
tert-Butylbenzene	47		"	50.0	95.0	80-127			0.525	30
Tetrachloroethylene	46		"	50.0	91.2	80-129			5.24	30
Toluene	49		"	50.0	97.4	85-121			1.43	30
trans-1,2-Dichloroethylene	50		"	50.0	100	72-132			5.42	30
trans-1,3-Dichloropropylene	52		"	50.0	104	78-132			0.0769	30
Trichloroethylene	52		"	50.0	104	84-123			1.11	30
Trichlorofluoromethane	38		"	50.0	76.5	62-140			1.69	30
Vinyl Chloride	45		"	50.0	89.2	52-130			0.157	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>	<i>98.4</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>	<i>99.5</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.9</i>		<i>"</i>	<i>50.0</i>	<i>104</i>	<i>76-130</i>				





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF80655 - EPA 5035A**

**Blank (BF80655-BLK1)**

Prepared & Analyzed: 06/13/2018

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	"								
1,2,3-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	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	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	"								
Cyclohexane	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 acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								Level	

**Batch BF80655 - EPA 5035A**

**Blank (BF80655-BLK1)**

Prepared & Analyzed: 06/13/2018

n-Propylbenzene	ND	5.0	ug/kg wet								
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-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								

<i>Surrogate: 1,2-Dichloroethane-d4</i>	45.9		ug/L	50.0		91.9	77-125				
<i>Surrogate: Toluene-d8</i>	50.5		"	50.0		101	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	53.3		"	50.0		107	76-130				

**Blank (BF80655-BLK2)**

Prepared & Analyzed: 06/13/2018

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	"								
1,2,3-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	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BF80655 - EPA 5035A**

**Blank (BF80655-BLK2)**

Prepared & Analyzed: 06/13/2018

Bromomethane	ND	5.0	ug/kg wet										
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	"										
Cyclohexane	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 acetate	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylcyclohexane	ND	5.0	"										
Methylene chloride	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-Butyl alcohol (TBA)	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
trans-1,3-Dichloropropylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Trichlorofluoromethane	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.4</i>		<i>ug/L</i>	<i>50.0</i>		<i>92.7</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.7</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>		<i>76-130</i>					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BF80655 - EPA 5035A</b>										
<b>LCS (BF80655-BS1)</b>										
Prepared & Analyzed: 06/13/2018										
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		100	75-129			
1,1,1-Trichloroethane	50		"	50.0		99.2	71-137			
1,1,2,2-Tetrachloroethane	49		"	50.0		97.9	79-129			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	47		"	50.0		93.1	58-146			
1,1,2-Trichloroethane	49		"	50.0		97.9	83-123			
1,1-Dichloroethane	50		"	50.0		99.4	75-130			
1,1-Dichloroethylene	44		"	50.0		88.0	64-137			
1,2,3-Trichlorobenzene	44		"	50.0		88.1	81-140			
1,2,3-Trichloropropane	48		"	50.0		95.7	81-126			
1,2,4-Trichlorobenzene	40		"	50.0		80.0	80-141			
1,2,4-Trimethylbenzene	42		"	50.0		83.8	84-125	Low Bias		
1,2-Dibromo-3-chloropropane	52		"	50.0		104	74-142			
1,2-Dibromoethane	52		"	50.0		104	86-123			
1,2-Dichlorobenzene	46		"	50.0		92.0	85-122			
1,2-Dichloroethane	51		"	50.0		102	71-133			
1,2-Dichloropropane	48		"	50.0		95.9	81-122			
1,3,5-Trimethylbenzene	45		"	50.0		90.5	82-126			
1,3-Dichlorobenzene	42		"	50.0		84.7	84-124			
1,4-Dichlorobenzene	43		"	50.0		86.4	84-124			
1,4-Dioxane	1000		"	1050		99.1	10-228			
2-Butanone	43		"	50.0		86.7	58-147			
2-Hexanone	48		"	50.0		95.2	70-139			
4-Methyl-2-pentanone	52		"	50.0		103	72-132			
Acetone	25		"	50.0		50.6	36-155			
Acrolein	50		"	50.0		99.1	10-238			
Acrylonitrile	53		"	50.0		106	66-141			
Benzene	49		"	50.0		99.0	77-127			
Bromochloromethane	50		"	50.0		100	74-129			
Bromodichloromethane	50		"	50.0		99.4	81-124			
Bromoform	55		"	50.0		109	80-136			
Bromomethane	42		"	50.0		85.0	32-177			
Carbon disulfide	52		"	50.0		104	10-136			
Carbon tetrachloride	51		"	50.0		101	66-143			
Chlorobenzene	48		"	50.0		95.5	86-120			
Chloroethane	47		"	50.0		93.5	51-142			
Chloroform	51		"	50.0		103	76-131			
Chloromethane	50		"	50.0		101	49-132			
cis-1,2-Dichloroethylene	50		"	50.0		100	74-132			
cis-1,3-Dichloropropylene	48		"	50.0		96.9	81-129			
Cyclohexane	49		"	50.0		97.8	70-130			
Dibromochloromethane	54		"	50.0		108	10-200			
Dibromomethane	50		"	50.0		101	83-124			
Dichlorodifluoromethane	58		"	50.0		116	28-158			
Ethyl Benzene	47		"	50.0		93.9	84-125			
Hexachlorobutadiene	44		"	50.0		88.7	83-133			
Isopropylbenzene	46		"	50.0		92.6	81-127			
Methyl acetate	35		"	50.0		70.9	41-143			
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131			
Methylcyclohexane	48		"	50.0		96.1	70-130			
Methylene chloride	43		"	50.0		85.4	57-141			
n-Butylbenzene	41		"	50.0		82.2	80-130			



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BF80655 - EPA 5035A</b>										
<b>LCS (BF80655-BS1)</b>										
Prepared & Analyzed: 06/13/2018										
n-Propylbenzene	43		ug/L	50.0		86.9	74-136			
o-Xylene	48		"	50.0		96.2	83-123			
p- & m- Xylenes	90		"	100		90.4	82-128			
p-Isopropyltoluene	43		"	50.0		85.2	85-125			
sec-Butylbenzene	48		"	50.0		95.5	83-125			
Styrene	46		"	50.0		92.3	86-126			
tert-Butyl alcohol (TBA)	270		"	250		109	70-130			
tert-Butylbenzene	46		"	50.0		91.3	80-127			
Tetrachloroethylene	43		"	50.0		86.4	80-129			
Toluene	47		"	50.0		94.8	85-121			
trans-1,2-Dichloroethylene	48		"	50.0		96.9	72-132			
trans-1,3-Dichloropropylene	49		"	50.0		97.9	78-132			
Trichloroethylene	48		"	50.0		96.2	84-123			
Trichlorofluoromethane	45		"	50.0		89.0	62-140			
Vinyl Chloride	47		"	50.0		94.2	52-130			
Surrogate: 1,2-Dichloroethane-d4	50.8		"	50.0		102	77-125			
Surrogate: Toluene-d8	49.1		"	50.0		98.1	85-120			
Surrogate: p-Bromofluorobenzene	51.6		"	50.0		103	76-130			
<b>LCS Dup (BF80655-BSD1)</b>										
Prepared & Analyzed: 06/13/2018										
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.5	75-129		4.90	30
1,1,1-Trichloroethane	51		"	50.0		102	71-137		3.16	30
1,1,2,2-Tetrachloroethane	46		"	50.0		92.4	79-129		5.84	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		103	58-146		9.61	30
1,1,2-Trichloroethane	47		"	50.0		94.2	83-123		3.83	30
1,1-Dichloroethane	50		"	50.0		99.4	75-130		0.0402	30
1,1-Dichloroethylene	48		"	50.0		96.7	64-137		9.40	30
1,2,3-Trichlorobenzene	45		"	50.0		90.1	81-140		2.33	30
1,2,3-Trichloropropane	46		"	50.0		92.2	81-126		3.79	30
1,2,4-Trichlorobenzene	41		"	50.0		81.7	80-141		2.15	30
1,2,4-Trimethylbenzene	42		"	50.0		84.1	84-125		0.381	30
1,2-Dibromo-3-chloropropane	51		"	50.0		102	74-142		2.50	30
1,2-Dibromoethane	50		"	50.0		99.9	86-123		4.12	30
1,2-Dichlorobenzene	46		"	50.0		91.8	85-122		0.196	30
1,2-Dichloroethane	51		"	50.0		102	71-133		0.0781	30
1,2-Dichloropropane	47		"	50.0		93.7	81-122		2.30	30
1,3,5-Trimethylbenzene	45		"	50.0		89.2	82-126		1.40	30
1,3-Dichlorobenzene	42		"	50.0		84.9	84-124		0.259	30
1,4-Dichlorobenzene	44		"	50.0		87.0	84-124		0.738	30
1,4-Dioxane	1100		"	1050		105	10-228		5.37	30
2-Butanone	45		"	50.0		90.6	58-147		4.40	30
2-Hexanone	47		"	50.0		94.6	70-139		0.590	30
4-Methyl-2-pentanone	50		"	50.0		99.3	72-132		4.01	30
Acetone	32		"	50.0		63.7	36-155		23.0	30
Acrolein	56		"	50.0		112	10-238		12.0	30
Acrylonitrile	51		"	50.0		102	66-141		3.46	30
Benzene	51		"	50.0		101	77-127		2.06	30
Bromochloromethane	48		"	50.0		96.8	74-129		3.61	30
Bromodichloromethane	49		"	50.0		97.5	81-124		1.93	30
Bromoform	51		"	50.0		103	80-136		6.24	30
Bromomethane	49		"	50.0		97.0	32-177		13.3	30



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level
<b>Batch BF80655 - EPA 5035A</b>										
<b>LCS Dup (BF80655-BSD1)</b>										
Prepared & Analyzed: 06/13/2018										
Carbon disulfide	58		ug/L	50.0	117	10-136			11.8	30
Carbon tetrachloride	51		"	50.0	102	66-143			0.511	30
Chlorobenzene	47		"	50.0	94.3	86-120			1.31	30
Chloroethane	53		"	50.0	105	51-142			11.6	30
Chloroform	52		"	50.0	105	76-131			2.18	30
Chloromethane	57		"	50.0	115	49-132			13.3	30
cis-1,2-Dichloroethylene	51		"	50.0	102	74-132			1.57	30
cis-1,3-Dichloropropylene	46		"	50.0	92.8	81-129			4.34	30
Cyclohexane	50		"	50.0	99.9	70-130			2.10	30
Dibromochloromethane	52		"	50.0	105	10-200			2.89	30
Dibromomethane	48		"	50.0	95.9	83-124			5.22	30
Dichlorodifluoromethane	62		"	50.0	124	28-158			6.53	30
Ethyl Benzene	46		"	50.0	92.7	84-125			1.27	30
Hexachlorobutadiene	47		"	50.0	93.3	83-133			5.10	30
Isopropylbenzene	45		"	50.0	89.7	81-127			3.27	30
Methyl acetate	39		"	50.0	78.5	41-143			10.2	30
Methyl tert-butyl ether (MTBE)	54		"	50.0	108	74-131			0.464	30
Methylcyclohexane	48		"	50.0	96.4	70-130			0.291	30
Methylene chloride	46		"	50.0	92.6	57-141			8.05	30
n-Butylbenzene	42		"	50.0	83.7	80-130			1.78	30
n-Propylbenzene	42		"	50.0	84.7	74-136			2.56	30
o-Xylene	48		"	50.0	95.9	83-123			0.333	30
p- & m- Xylenes	91		"	100	90.7	82-128			0.320	30
p-Isopropyltoluene	43		"	50.0	85.4	85-125			0.211	30
sec-Butylbenzene	48		"	50.0	95.1	83-125			0.378	30
Styrene	46		"	50.0	91.7	86-126			0.674	30
tert-Butyl alcohol (TBA)	270		"	250	109	70-130			0.561	30
tert-Butylbenzene	45		"	50.0	90.2	80-127			1.21	30
Tetrachloroethylene	44		"	50.0	87.0	80-129			0.646	30
Toluene	47		"	50.0	94.4	85-121			0.486	30
trans-1,2-Dichloroethylene	50		"	50.0	100	72-132			3.63	30
trans-1,3-Dichloropropylene	46		"	50.0	92.2	78-132			5.95	30
Trichloroethylene	48		"	50.0	95.1	84-123			1.07	30
Trichlorofluoromethane	47		"	50.0	94.8	62-140			6.27	30
Vinyl Chloride	54		"	50.0	107	52-130			13.1	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>	<i>98.3</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>	<i>97.3</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>	<i>98.9</i>	<i>76-130</i>				





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Limit	Flag
		Limit								RPD		

**Batch BF81084 - EPA 5035A**

**Blank (BF81084-BLK1)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet									
1,3,5-Trimethylbenzene	ND	5.0	"									
Benzene	ND	5.0	"									
Ethyl Benzene	ND	5.0	"									
Isopropylbenzene	ND	5.0	"									
Methyl tert-butyl ether (MTBE)	ND	5.0	"									
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	"									
tert-Butylbenzene	ND	5.0	"									
Toluene	ND	5.0	"									
Xylenes, Total	ND	15	"									

<i>Surrogate: 1,2-Dichloroethane-d4</i>	41.2		ug/L	50.0		82.5	77-125					
<i>Surrogate: Toluene-d8</i>	49.3		"	50.0		98.6	85-120					
<i>Surrogate: p-Bromofluorobenzene</i>	52.8		"	50.0		106	76-130					

**Blank (BF81084-BLK2)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet									
1,3,5-Trimethylbenzene	ND	500	"									
Benzene	ND	500	"									
Ethyl Benzene	ND	500	"									
Isopropylbenzene	ND	500	"									
Methyl tert-butyl ether (MTBE)	ND	500	"									
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	"									
tert-Butylbenzene	ND	500	"									
Toluene	ND	500	"									
Xylenes, Total	ND	1500	"									

<i>Surrogate: 1,2-Dichloroethane-d4</i>	42.2		ug/L	50.0		84.5	77-125					
<i>Surrogate: Toluene-d8</i>	48.8		"	50.0		97.6	85-120					
<i>Surrogate: p-Bromofluorobenzene</i>	51.4		"	50.0		103	76-130					



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

**Batch BF81084 - EPA 5035A**

**LCS (BF81084-BS1)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	46		ug/L	50.0		91.3	84-125				
1,3,5-Trimethylbenzene	46		"	50.0		91.5	82-126				
Benzene	48		"	50.0		96.6	77-127				
Ethyl Benzene	47		"	50.0		93.5	84-125				
Isopropylbenzene	46		"	50.0		92.7	81-127				
Methyl tert-butyl ether (MTBE)	50		"	50.0		101	74-131				
Naphthalene	51		"	50.0		102	86-141				
n-Butylbenzene	47		"	50.0		93.1	80-130				
n-Propylbenzene	45		"	50.0		89.6	74-136				
o-Xylene	47		"	50.0		93.7	83-123				
p- & m- Xylenes	91		"	100		90.6	82-128				
p-Isopropyltoluene	48		"	50.0		96.2	85-125				
sec-Butylbenzene	49		"	50.0		98.1	83-125				
tert-Butylbenzene	48		"	50.0		95.6	80-127				
Toluene	47		"	50.0		93.9	85-121				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.6</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.1</i>		<i>"</i>	<i>50.0</i>		<i>98.2</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.6</i>		<i>"</i>	<i>50.0</i>		<i>99.3</i>	<i>76-130</i>				

**LCS Dup (BF81084-BSD1)**

Prepared & Analyzed: 06/20/2018

1,2,4-Trimethylbenzene	45		ug/L	50.0		90.0	84-125		1.52	30
1,3,5-Trimethylbenzene	45		"	50.0		89.2	82-126		2.50	30
Benzene	47		"	50.0		94.9	77-127		1.80	30
Ethyl Benzene	45		"	50.0		90.0	84-125		3.75	30
Isopropylbenzene	46		"	50.0		91.8	81-127		0.932	30
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.4	74-131		10.6	30
Naphthalene	48		"	50.0		96.1	86-141		6.01	30
n-Butylbenzene	46		"	50.0		92.6	80-130		0.582	30
n-Propylbenzene	45		"	50.0		90.2	74-136		0.712	30
o-Xylene	45		"	50.0		90.7	83-123		3.30	30
p- & m- Xylenes	89		"	100		88.9	82-128		1.90	30
p-Isopropyltoluene	48		"	50.0		95.5	85-125		0.772	30
sec-Butylbenzene	49		"	50.0		98.7	83-125		0.549	30
tert-Butylbenzene	48		"	50.0		96.3	80-127		0.729	30
Toluene	45		"	50.0		90.6	85-121		3.62	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.2</i>		<i>"</i>	<i>50.0</i>		<i>90.3</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>98.0</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>76-130</i>			



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF81161 - EPA 5035A**

**Blank (BF81161-BLK1)**

Prepared & Analyzed: 06/21/2018

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	"
1,2,3-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	"
1,2,4-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	"
1,3,5-Trimethylbenzene	ND	5.0	"
1,3-Dichlorobenzene	ND	5.0	"
1,4-Dichlorobenzene	ND	5.0	"
1,4-Dioxane	ND	100	"
2-Butanone	ND	5.0	"
2-Hexanone	ND	5.0	"
4-Methyl-2-pentanone	ND	5.0	"
Acetone	ND	10	"
Acrolein	ND	10	"
Acrylonitrile	ND	5.0	"
Benzene	ND	5.0	"
Benzene	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	"
Cyclohexane	ND	5.0	"
Dibromochloromethane	ND	5.0	"
Dibromomethane	ND	5.0	"
Dichlorodifluoromethane	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Ethyl Benzene	ND	5.0	"
Hexachlorobutadiene	ND	5.0	"
Isopropylbenzene	ND	5.0	"
Isopropylbenzene	ND	5.0	"



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BF81161 - EPA 5035A**

**Blank (BF81161-BLK1)**

Prepared & Analyzed: 06/21/2018

Methyl acetate	ND	5.0	ug/kg wet										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
Methylcyclohexane	ND	5.0	"										
Methylene chloride	ND	10	"										
Naphthalene	3.8	10	"										
n-Butylbenzene	ND	5.0	"										
n-Butylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
n-Propylbenzene	ND	5.0	"										
o-Xylene	ND	5.0	"										
o-Xylene	ND	5.0	"										
p- & m- Xylenes	ND	10	"										
p- & m- Xylenes	ND	10	"										
p-Isopropyltoluene	ND	5.0	"										
p-Isopropyltoluene	ND	5.0	"										
sec-Butylbenzene	ND	5.0	"										
sec-Butylbenzene	ND	5.0	"										
Styrene	ND	5.0	"										
tert-Butyl alcohol (TBA)	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
tert-Butylbenzene	ND	5.0	"										
Tetrachloroethylene	ND	5.0	"										
Toluene	ND	5.0	"										
Toluene	ND	5.0	"										
trans-1,2-Dichloroethylene	ND	5.0	"										
trans-1,3-Dichloropropylene	ND	5.0	"										
Trichloroethylene	ND	5.0	"										
Trichlorofluoromethane	ND	5.0	"										
Vinyl Chloride	ND	5.0	"										
Xylenes, Total	ND	15	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.1</i>		<i>ug/L</i>	<i>50.0</i>		<i>88.2</i>	<i>77-125</i>						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.1</i>		<i>"</i>	<i>50.0</i>		<i>88.2</i>	<i>77-125</i>						
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>97.9</i>	<i>85-120</i>						
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>"</i>	<i>50.0</i>		<i>97.9</i>	<i>85-120</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.8</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>76-130</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>51.8</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>76-130</i>						



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF81161 - EPA 5035A**

**Blank (BF81161-BLK2)**

Prepared & Analyzed: 06/21/2018

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	"
1,2,3-Trichlorobenzene	ND	500	"
1,2,3-Trichloropropane	ND	500	"
1,2,4-Trichlorobenzene	ND	500	"
1,2,4-Trimethylbenzene	ND	500	"
1,2,4-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	"
1,3,5-Trimethylbenzene	ND	500	"
1,3-Dichlorobenzene	ND	500	"
1,4-Dichlorobenzene	ND	500	"
1,4-Dioxane	ND	10000	"
2-Butanone	ND	500	"
2-Hexanone	ND	500	"
4-Methyl-2-pentanone	ND	500	"
Acetone	ND	1000	"
Acrolein	ND	1000	"
Acrylonitrile	ND	500	"
Benzene	ND	500	"
Benzene	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	"
Cyclohexane	ND	500	"
Dibromochloromethane	ND	500	"
Dibromomethane	ND	500	"
Dichlorodifluoromethane	ND	500	"
Ethyl Benzene	ND	500	"
Ethyl Benzene	ND	500	"
Hexachlorobutadiene	ND	500	"
Isopropylbenzene	ND	500	"
Isopropylbenzene	ND	500	"



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF81161 - EPA 5035A**

**Blank (BF81161-BLK2)**

Prepared & Analyzed: 06/21/2018

Methyl acetate	ND	500	ug/kg wet								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	580	1000	"								
Naphthalene	280	1000	"								
n-Butylbenzene	ND	500	"								
n-Butylbenzene	ND	500	"								
n-Propylbenzene	ND	500	"								
n-Propylbenzene	ND	500	"								
o-Xylene	ND	500	"								
o-Xylene	ND	500	"								
p- & m- Xylenes	ND	1000	"								
p- & m- Xylenes	ND	1000	"								
p-Isopropyltoluene	ND	500	"								
p-Isopropyltoluene	ND	500	"								
sec-Butylbenzene	ND	500	"								
sec-Butylbenzene	ND	500	"								
Styrene	ND	500	"								
tert-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>89.8</i>	<i>77-125</i>				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>44.9</i>		<i>"</i>	<i>50.0</i>		<i>89.8</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.7</i>	<i>85-120</i>				
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.7</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>76-130</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>	<i>76-130</i>				





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit							Units	Level

**Batch BF81161 - EPA 5035A**

**LCS (BF81161-BS1)**

Prepared & Analyzed: 06/21/2018

1,1,1,2-Tetrachloroethane	48		ug/L	50.0		95.4	75-129				
1,1,1-Trichloroethane	46		"	50.0		91.4	71-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	51		"	50.0		103	58-146				
1,1,2-Trichloroethane	47		"	50.0		94.8	83-123				
1,1-Dichloroethane	48		"	50.0		95.9	75-130				
1,1-Dichloroethylene	46		"	50.0		91.3	64-137				
1,2,3-Trichlorobenzene	49		"	50.0		98.5	81-140				
1,2,3-Trichloropropane	51		"	50.0		102	81-126				
1,2,4-Trichlorobenzene	48		"	50.0		95.6	80-141				
1,2,4-Trimethylbenzene	44		"	50.0		88.2	84-125				
1,2,4-Trimethylbenzene	44		"	50.0		88.2	84-125				
1,2-Dibromo-3-chloropropane	48		"	50.0		97.0	74-142				
1,2-Dibromoethane	49		"	50.0		97.5	86-123				
1,2-Dichlorobenzene	47		"	50.0		94.5	85-122				
1,2-Dichloroethane	44		"	50.0		87.3	71-133				
1,2-Dichloropropane	45		"	50.0		90.0	81-122				
1,3,5-Trimethylbenzene	43		"	50.0		86.9	82-126				
1,3,5-Trimethylbenzene	43		"	50.0		86.9	82-126				
1,3-Dichlorobenzene	46		"	50.0		91.1	84-124				
1,4-Dichlorobenzene	45		"	50.0		89.8	84-124				
1,4-Dioxane	1100		"	1050		102	10-228				
2-Butanone	61		"	50.0		122	58-147				
2-Hexanone	48		"	50.0		96.5	70-139				
4-Methyl-2-pentanone	52		"	50.0		104	72-132				
Acetone	51		"	50.0		102	36-155				
Acrolein	44		"	50.0		87.4	10-238				
Acrylonitrile	52		"	50.0		104	66-141				
Benzene	49		"	50.0		99.0	77-127				
Benzene	49		"	50.0		99.0	77-127				
Bromochloromethane	48		"	50.0		96.6	74-129				
Bromodichloromethane	42		"	50.0		84.7	81-124				
Bromoform	51		"	50.0		102	80-136				
Bromomethane	44		"	50.0		88.2	32-177				
Carbon disulfide	55		"	50.0		110	10-136				
Carbon tetrachloride	46		"	50.0		92.6	66-143				
Chlorobenzene	46		"	50.0		91.6	86-120				
Chloroethane	42		"	50.0		84.9	51-142				
Chloroform	46		"	50.0		92.3	76-131				
Chloromethane	48		"	50.0		95.6	49-132				
cis-1,2-Dichloroethylene	50		"	50.0		99.7	74-132				
cis-1,3-Dichloropropylene	44		"	50.0		88.0	81-129				
Cyclohexane	50		"	50.0		101	70-130				
Dibromochloromethane	48		"	50.0		96.7	10-200				
Dibromomethane	45		"	50.0		90.8	83-124				
Dichlorodifluoromethane	48		"	50.0		95.8	28-158				
Ethyl Benzene	45		"	50.0		89.3	84-125				
Ethyl Benzene	45		"	50.0		89.3	84-125				
Hexachlorobutadiene	42		"	50.0		83.5	83-133				
Isopropylbenzene	43		"	50.0		86.7	81-127				
Isopropylbenzene	43		"	50.0		86.7	81-127				



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BF81161 - EPA 5035A**

**LCS (BF81161-BS1)**

Prepared & Analyzed: 06/21/2018

Methyl acetate	51		ug/L	50.0		101		41-143					
Methyl tert-butyl ether (MTBE)	52		"	50.0		103		74-131					
Methyl tert-butyl ether (MTBE)	52		"	50.0		103		74-131					
Methylcyclohexane	44		"	50.0		87.6		70-130					
Methylene chloride	48		"	50.0		95.0		57-141					
Naphthalene	57		"	50.0		115		86-141					
n-Butylbenzene	44		"	50.0		88.4		80-130					
n-Butylbenzene	44		"	50.0		88.4		80-130					
n-Propylbenzene	43		"	50.0		85.8		74-136					
n-Propylbenzene	43		"	50.0		85.8		74-136					
o-Xylene	45		"	50.0		90.1		83-123					
o-Xylene	45		"	50.0		90.1		83-123					
p- & m- Xylenes	88		"	100		87.7		82-128					
p- & m- Xylenes	88		"	100		87.7		82-128					
p-Isopropyltoluene	46		"	50.0		91.3		85-125					
p-Isopropyltoluene	46		"	50.0		91.3		85-125					
sec-Butylbenzene	47		"	50.0		93.4		83-125					
sec-Butylbenzene	47		"	50.0		93.4		83-125					
Styrene	45		"	50.0		89.7		86-126					
tert-Butyl alcohol (TBA)	270		"	250		109		70-130					
tert-Butylbenzene	45		"	50.0		90.2		80-127					
tert-Butylbenzene	45		"	50.0		90.2		80-127					
Tetrachloroethylene	46		"	50.0		91.9		80-129					
Toluene	45		"	50.0		90.1		85-121					
Toluene	45		"	50.0		90.1		85-121					
trans-1,2-Dichloroethylene	46		"	50.0		92.4		72-132					
trans-1,3-Dichloropropylene	45		"	50.0		89.1		78-132					
Trichloroethylene	44		"	50.0		87.8		84-123					
Trichlorofluoromethane	35		"	50.0		70.8		62-140					
Vinyl Chloride	50		"	50.0		100		52-130					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.0</i>		<i>"</i>	<i>50.0</i>		<i>94.0</i>		<i>77-125</i>					
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.0</i>		<i>"</i>	<i>50.0</i>		<i>94.0</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>48.4</i>		<i>"</i>	<i>50.0</i>		<i>96.7</i>		<i>85-120</i>					
<i>Surrogate: Toluene-d8</i>	<i>48.4</i>		<i>"</i>	<i>50.0</i>		<i>96.7</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.7</i>		<i>76-130</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.7</i>		<i>76-130</i>					



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF81161 - EPA 5035A</b>											
<b>LCS Dup (BF81161-BSD1)</b>										Prepared & Analyzed: 06/21/2018	
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		101	75-129		5.37	30	
1,1,1-Trichloroethane	49		"	50.0		98.9	71-137		7.90	30	
1,1,2,2-Tetrachloroethane	51		"	50.0		101	79-129		0.864	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	55		"	50.0		110	58-146		6.87	30	
1,1,2-Trichloroethane	47		"	50.0		94.6	83-123		0.296	30	
1,1-Dichloroethane	49		"	50.0		97.3	75-130		1.37	30	
1,1-Dichloroethylene	48		"	50.0		95.6	64-137		4.67	30	
1,2,3-Trichlorobenzene	49		"	50.0		97.9	81-140		0.611	30	
1,2,3-Trichloropropane	49		"	50.0		98.6	81-126		3.29	30	
1,2,4-Trichlorobenzene	46		"	50.0		93.0	80-141		2.74	30	
1,2,4-Trimethylbenzene	46		"	50.0		92.0	84-125		4.17	30	
1,2,4-Trimethylbenzene	46		"	50.0		92.0	84-125		4.17	30	
1,2-Dibromo-3-chloropropane	42		"	50.0		83.5	74-142		14.9	30	
1,2-Dibromoethane	50		"	50.0		99.2	86-123		1.71	30	
1,2-Dichlorobenzene	49		"	50.0		98.3	85-122		3.94	30	
1,2-Dichloroethane	44		"	50.0		87.9	71-133		0.662	30	
1,2-Dichloropropane	48		"	50.0		95.1	81-122		5.51	30	
1,3,5-Trimethylbenzene	46		"	50.0		91.5	82-126		5.18	30	
1,3,5-Trimethylbenzene	46		"	50.0		91.5	82-126		5.18	30	
1,3-Dichlorobenzene	48		"	50.0		96.2	84-124		5.51	30	
1,4-Dichlorobenzene	47		"	50.0		94.2	84-124		4.78	30	
1,4-Dioxane	980		"	1050		93.5	10-228		9.13	30	
2-Butanone	61		"	50.0		121	58-147		0.774	30	
2-Hexanone	45		"	50.0		90.2	70-139		6.79	30	
4-Methyl-2-pentanone	48		"	50.0		96.3	72-132		7.58	30	
Acetone	46		"	50.0		92.6	36-155		9.33	30	
Acrolein	38		"	50.0		76.9	10-238		12.7	30	
Acrylonitrile	54		"	50.0		109	66-141		4.13	30	
Benzene	50		"	50.0		101	77-127		1.58	30	
Benzene	50		"	50.0		101	77-127		1.58	30	
Bromochloromethane	49		"	50.0		97.1	74-129		0.558	30	
Bromodichloromethane	45		"	50.0		90.9	81-124		7.08	30	
Bromoform	52		"	50.0		103	80-136		1.29	30	
Bromomethane	47		"	50.0		94.3	32-177		6.66	30	
Carbon disulfide	57		"	50.0		114	10-136		3.17	30	
Carbon tetrachloride	50		"	50.0		101	66-143		8.60	30	
Chlorobenzene	48		"	50.0		96.6	86-120		5.29	30	
Chloroethane	45		"	50.0		90.3	51-142		6.07	30	
Chloroform	48		"	50.0		96.4	76-131		4.43	30	
Chloromethane	49		"	50.0		97.7	49-132		2.17	30	
cis-1,2-Dichloroethylene	50		"	50.0		100	74-132		0.281	30	
cis-1,3-Dichloropropylene	45		"	50.0		90.7	81-129		3.09	30	
Cyclohexane	53		"	50.0		106	70-130		4.83	30	
Dibromochloromethane	51		"	50.0		102	10-200		5.18	30	
Dibromomethane	46		"	50.0		91.0	83-124		0.242	30	
Dichlorodifluoromethane	51		"	50.0		102	28-158		6.29	30	
Ethyl Benzene	48		"	50.0		95.2	84-125		6.44	30	
Ethyl Benzene	48		"	50.0		95.2	84-125		6.44	30	
Hexachlorobutadiene	44		"	50.0		88.6	83-133		5.93	30	
Isopropylbenzene	47		"	50.0		93.9	81-127		7.99	30	
Isopropylbenzene	47		"	50.0		93.9	81-127		7.99	30	



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch BF81161 - EPA 5035A**

**LCS Dup (BF81161-BSD1)**

Prepared & Analyzed: 06/21/2018

Methyl acetate	53		ug/L	50.0		106	41-143			4.66	30		
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	74-131			2.69	30		
Methyl tert-butyl ether (MTBE)	50		"	50.0		100	74-131			2.69	30		
Methylcyclohexane	48		"	50.0		96.1	70-130			9.30	30		
Methylene chloride	49		"	50.0		97.0	57-141			2.12	30		
Naphthalene	54		"	50.0		108	86-141			6.28	30		
n-Butylbenzene	46		"	50.0		91.3	80-130			3.23	30		
n-Butylbenzene	46		"	50.0		91.3	80-130			3.23	30		
n-Propylbenzene	46		"	50.0		92.7	74-136			7.73	30		
n-Propylbenzene	46		"	50.0		92.7	74-136			7.73	30		
o-Xylene	47		"	50.0		93.8	83-123			4.07	30		
o-Xylene	47		"	50.0		93.8	83-123			4.07	30		
p- & m- Xylenes	94		"	100		93.9	82-128			6.86	30		
p- & m- Xylenes	94		"	100		93.9	82-128			6.86	30		
p-Isopropyltoluene	49		"	50.0		97.5	85-125			6.55	30		
p-Isopropyltoluene	49		"	50.0		97.5	85-125			6.55	30		
sec-Butylbenzene	50		"	50.0		99.2	83-125			6.08	30		
sec-Butylbenzene	50		"	50.0		99.2	83-125			6.08	30		
Styrene	47		"	50.0		93.3	86-126			3.85	30		
tert-Butyl alcohol (TBA)	230		"	250		93.0	70-130			16.1	30		
tert-Butylbenzene	48		"	50.0		95.8	80-127			6.06	30		
tert-Butylbenzene	48		"	50.0		95.8	80-127			6.06	30		
Tetrachloroethylene	49		"	50.0		98.7	80-129			7.09	30		
Toluene	48		"	50.0		95.9	85-121			6.17	30		
Toluene	48		"	50.0		95.9	85-121			6.17	30		
trans-1,2-Dichloroethylene	49		"	50.0		97.8	72-132			5.70	30		
trans-1,3-Dichloropropylene	46		"	50.0		91.7	78-132			2.87	30		
Trichloroethylene	49		"	50.0		97.1	84-123			10.1	30		
Trichlorofluoromethane	39		"	50.0		77.3	62-140			8.70	30		
Vinyl Chloride	52		"	50.0		104	52-130			3.66	30		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.3</i>		<i>"</i>	<i>50.0</i>		<i>90.6</i>	<i>77-125</i>						
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.3</i>		<i>"</i>	<i>50.0</i>		<i>90.6</i>	<i>77-125</i>						
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.5</i>	<i>85-120</i>						
<i>Surrogate: Toluene-d8</i>	<i>48.8</i>		<i>"</i>	<i>50.0</i>		<i>97.5</i>	<i>85-120</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-130</i>						
<i>Surrogate: p-Bromofluorobenzene</i>	<i>50.8</i>		<i>"</i>	<i>50.0</i>		<i>102</i>	<i>76-130</i>						



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BF81236 - EPA 5035A**

**Blank (BF81236-BLK1)**

Prepared & Analyzed: 06/22/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet										
1,3,5-Trimethylbenzene	ND	5.0	"										
Benzene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
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	"										
tert-Butylbenzene	ND	5.0	"										
Toluene	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>45.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>90.1</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.5</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.3</i>		<i>"</i>	<i>50.0</i>		<i>105</i>		<i>76-130</i>					

**Blank (BF81236-BLK2)**

Prepared & Analyzed: 06/22/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet										
1,3,5-Trimethylbenzene	ND	500	"										
Benzene	ND	500	"										
Ethyl Benzene	ND	500	"										
Isopropylbenzene	ND	500	"										
Methyl tert-butyl ether (MTBE)	ND	500	"										
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	"										
tert-Butylbenzene	ND	500	"										
Toluene	ND	500	"										
Xylenes, Total	ND	1500	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>41.8</i>		<i>ug/L</i>	<i>50.0</i>		<i>83.7</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.0</i>		<i>"</i>	<i>50.0</i>		<i>104</i>		<i>76-130</i>					



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					RPD	

Batch BF81236 - EPA 5035A

LCS (BF81236-BS1)											Prepared & Analyzed: 06/22/2018	
1,2,4-Trimethylbenzene	45		ug/L	50.0		89.1		84-125				
1,3,5-Trimethylbenzene	45		"	50.0		90.3		82-126				
Benzene	48		"	50.0		95.6		77-127				
Ethyl Benzene	43		"	50.0		86.0		84-125				
Isopropylbenzene	45		"	50.0		89.4		81-127				
Methyl tert-butyl ether (MTBE)	48		"	50.0		96.1		74-131				
Naphthalene	50		"	50.0		99.8		86-141				
n-Butylbenzene	45		"	50.0		89.3		80-130				
n-Propylbenzene	45		"	50.0		89.2		74-136				
o-Xylene	44		"	50.0		87.2		83-123				
p- & m- Xylenes	84		"	100		84.0		82-128				
p-Isopropyltoluene	46		"	50.0		92.9		85-125				
sec-Butylbenzene	47		"	50.0		94.4		83-125				
tert-Butylbenzene	45		"	50.0		90.6		80-127				
Toluene	44		"	50.0		87.9		85-121				
Surrogate: 1,2-Dichloroethane-d4	45.2		"	50.0		90.4		77-125				
Surrogate: Toluene-d8	48.5		"	50.0		97.1		85-120				
Surrogate: p-Bromofluorobenzene	51.5		"	50.0		103		76-130				

LCS Dup (BF81236-BSD1)											Prepared & Analyzed: 06/22/2018	
1,2,4-Trimethylbenzene	47		ug/L	50.0		94.1		84-125		5.48	30	
1,3,5-Trimethylbenzene	47		"	50.0		94.3		82-126		4.29	30	
Benzene	53		"	50.0		106		77-127		10.7	30	
Ethyl Benzene	47		"	50.0		94.3		84-125		9.12	30	
Isopropylbenzene	48		"	50.0		96.0		81-127		7.14	30	
Methyl tert-butyl ether (MTBE)	53		"	50.0		106		74-131		9.68	30	
Naphthalene	46		"	50.0		92.8		86-141		7.19	30	
n-Butylbenzene	46		"	50.0		91.1		80-130		1.95	30	
n-Propylbenzene	47		"	50.0		94.3		74-136		5.56	30	
o-Xylene	47		"	50.0		94.9		83-123		8.41	30	
p- & m- Xylenes	92		"	100		92.3		82-128		9.43	30	
p-Isopropyltoluene	47		"	50.0		94.9		85-125		2.07	30	
sec-Butylbenzene	50		"	50.0		100		83-125		6.08	30	
tert-Butylbenzene	48		"	50.0		96.3		80-127		6.14	30	
Toluene	49		"	50.0		97.1		85-121		9.93	30	
Surrogate: 1,2-Dichloroethane-d4	44.0		"	50.0		88.0		77-125				
Surrogate: Toluene-d8	48.8		"	50.0		97.6		85-120				
Surrogate: p-Bromofluorobenzene	50.7		"	50.0		101		76-130				





Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80629 - EPA 3550C**

**Blank (BF80629-BLK1)**

Prepared: 06/12/2018 Analyzed: 06/15/2018

Acenaphthene	ND	42	ug/kg wet								
Acenaphthylene	ND	42	"								
Anthracene	ND	42	"								
Benzo(a)anthracene	ND	42	"								
Benzo(a)pyrene	ND	42	"								
Benzo(b)fluoranthene	ND	42	"								
Benzo(g,h,i)perylene	ND	42	"								
Benzo(k)fluoranthene	ND	42	"								
Chrysene	ND	42	"								
Dibenzo(a,h)anthracene	ND	42	"								
Fluoranthene	ND	42	"								
Fluorene	ND	42	"								
Indeno(1,2,3-cd)pyrene	ND	42	"								
Naphthalene	ND	42	"								
Phenanthrene	ND	42	"								
Pyrene	ND	42	"								

<i>Surrogate: Nitrobenzene-d5</i>	630		"	1670		37.5	22-108				
<i>Surrogate: 2-Fluorobiphenyl</i>	620		"	1660		37.2	21-113				
<i>Surrogate: Terphenyl-d14</i>	670		"	1670		39.9	24-116				

**LCS (BF80629-BS1)**

Prepared: 06/12/2018 Analyzed: 06/15/2018

Acenaphthene	540	42	ug/kg wet	833		65.4	17-124				
Acenaphthylene	530	42	"	833		63.9	16-124				
Anthracene	560	42	"	833		67.3	24-124				
Benzo(a)anthracene	580	42	"	833		69.3	25-134				
Benzo(a)pyrene	640	42	"	833		76.2	29-144				
Benzo(b)fluoranthene	610	42	"	833		73.7	20-151				
Benzo(g,h,i)perylene	700	42	"	833		84.4	10-153				
Benzo(k)fluoranthene	600	42	"	833		71.7	10-148				
Chrysene	570	42	"	833		69.0	24-116				
Dibenzo(a,h)anthracene	760	42	"	833		91.3	17-147				
Fluoranthene	570	42	"	833		68.0	36-125				
Fluorene	550	42	"	833		65.5	16-130				
Indeno(1,2,3-cd)pyrene	540	42	"	833		64.4	10-155				
Naphthalene	610	42	"	833		73.5	20-121				
Phenanthrene	570	42	"	833		68.4	24-123				
Pyrene	520	42	"	833		61.9	24-132				

<i>Surrogate: Nitrobenzene-d5</i>	590		"	1670		35.2	22-108				
<i>Surrogate: 2-Fluorobiphenyl</i>	560		"	1660		33.6	21-113				
<i>Surrogate: Terphenyl-d14</i>	600		"	1670		36.1	24-116				



**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

**Batch BF80630 - EPA 3550C**

**Blank (BF80630-BLK2)**

Prepared: 06/12/2018 Analyzed: 06/13/2018

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0720		"	0.0673		107	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0620		"	0.0697		89.0	30-140				

**LCS (BF80630-BS2)**

Prepared: 06/12/2018 Analyzed: 06/13/2018

Aroclor 1016	0.392	0.0167	mg/kg wet	0.333		118	40-130				
Aroclor 1260	0.350	0.0167	"	0.333		105	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0780		"	0.0673		116	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0670		"	0.0697		96.2	30-140				



Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80735 - % Solids Prep**

<b>Duplicate (BF80735-DUP1)</b>	*Source sample: 18F0273-08 (SB-04 10-12)						Prepared: 06/13/2018 Analyzed: 06/14/2018				
% Solids	81.4	0.100	%		81.6				0.253	20	



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18F0273-01	MW-01	40mL Vial with Stir Bar-Cool 4° C
18F0273-02	MW-02	40mL Vial with Stir Bar-Cool 4° C
18F0273-03	MW-03	40mL Vial with Stir Bar-Cool 4° C
18F0273-04	SB-01 8-9	40mL Vial with Stir Bar-Cool 4° C
18F0273-05	SB-02 7-9	40mL Vial with Stir Bar-Cool 4° C
18F0273-06	SB-03 7-8	40mL Vial with Stir Bar-Cool 4° C
18F0273-07	SB-04 7-9	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0273-08	SB-04 10-12	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0273-09	MW-04	40mL Vial with Stir Bar-Cool 4° C
18F0273-10	SB-05 6-8	40mL Vial with Stir Bar-Cool 4° C
18F0273-11	SB-06 7-9	40mL Vial with Stir Bar-Cool 4° C
18F0273-12	SB-07 4-5	40mL Vial with Stir Bar-Cool 4° C



## Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
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.
HT-01R	This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

### Definitions and Other Explanations

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

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



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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

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Revision Description: This report has been revised to report Full List VOCs on select samples.





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

# Field Chain-of-Custody Record

York Project No. 18F0273

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

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type		
Company: <b>WCD</b>	<b>SAME</b> Gina Wolfman	<b>SAME</b> Brenda	<b>SAME</b> Brenda	SB18035		RUSH-Same Day		RUSH-Next Day		Summary Report <b>X</b>		
Address: 24 Davis Avenue	Name:	Name:	Name:	Purchase Order #		RUSH-Two Day		RUSH-Three Day		QA Report		
Poughkeepsie, NY	Company:	Company:	Company:	SC18035		RUSH-Four Day		Standard (5-7day)		CT RCP		
Phone: (845) 452-1658	Address:	Address:	Address:	Samples from NY		Metals		Misc. Org.		CT RCP DQ/DUE Pkg		
Contact: Gina Wolfman	E-mail:	E-mail:	E-mail:	Volatiles		TICs		TPH GRO		NY ASP A Package		
E-mail:	Matrix Codes		S. soil		8269 Jul		Site Spec.		TPH DRO		NY ASP B Package	
	WW - wastewater		Collet - specify vol, etc.		621		Nassau Co.		CT ETPH		NUDEP Reduced Deliv	
	CW - ground water		MIDDLE		STAR'S list		Suffolk Co.		Full TCLP		Excel	
	DW - drinking water		TCLP list		JULIX		k-ettes		Full App IX		NYSDEC EQUIS	
	Air-A ambient air		TACUM list		MIDDLE		Cryogenates		Full App IX		NUDEP SRP HazSite	
	Air-SV soil vapor		TCLP list		JULIX		TCLP list		Full App IX		EQUIS	
			CT RCP list		MIDDLE		5242		Full App IX		GIS/KEY (std)	
			Arom only		MIDDLE		5022		Full App IX		YORK Regulatory Comp Excel	
			Fasting only		MIDDLE		NTDHP list		Full App IX		compared to:	
			App IX list		MIDDLE		SFTF/TCLP		Full App IX		<b>NYSDEC UU &amp; RRUSCO</b>	
			8021B list		MIDDLE		8021B list		Full App IX		OTHER:	

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

Samples Collected/Authorized By (Signature)  
*Gina Wolfman*  
Name (printed)  
Gina Wolfman

Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
MW-01	6/6/2018	Soil	CP-51 Full Petroleum Compound List (8270)	4, 40-ml vials
MW-02				1, 8-oz glass*
MW-03				
SB-01 8-9				
SB-02 7-9				
SB-03 7-8				
SB-04 7-9			CP-51 Full Petroleum Compound List (8270); VOCs (8260)	4, 40-ml vials
SB-04 10-12				1, 8-oz glass*

**Comments:**  
VOA kit: 4 X 40ml vials, laboratory supplied  
\*Hold 8-oz glass for possible additional analysis

Preservation (check all applicable):  
4°C \_\_\_\_\_ Frozen \_\_\_\_\_ HCl \_\_\_\_\_ MeOH \_\_\_\_\_ HNO<sub>3</sub> \_\_\_\_\_ H<sub>2</sub>O<sub>2</sub> \_\_\_\_\_ NaOH \_\_\_\_\_  
ZnAc \_\_\_\_\_ Ascorbic Acid \_\_\_\_\_ Other \_\_\_\_\_

Special Instructions:  
Field Filtered   
Lab to Filter

Samples Relinquished By: *Chick* 6-7-18 11:00am Date/Time  
Samples Received By: *Chick* 6-7-18 11:00 Date/Time

Samples Relinquished By: *Chick* 6-7-18 1508 Date/Time  
Samples Received in LAB by: *Chick* 6/7/18 1508 Date/Time

Temperature on Receipt: 3.7°C







# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 06/08/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18F0019

Revision No. 1.0

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](mailto:ClientServices@yorklab.com)

Report Date: 06/08/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18F0019

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 June 01, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18F0019-01	EP-01	Soil	05/31/2018	06/01/2018
18F0019-02	EP-02	Soil	05/31/2018	06/01/2018
18F0019-03	EP-03	Soil	05/31/2018	06/01/2018

## **General Notes for York Project (SDG) No.: 18F0019**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 06/08/2018









### Sample Information

**Client Sample ID:** EP-01

**York Sample ID:** 18F0019-01

<u>York Project (SDG) No.</u> 18F0019	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2018 3:00 pm	<u>Date Received</u> 06/01/2018
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**Total Solids**

**Log-in Notes:**

**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	84.3		%	0.100	1	SM 2540G Certifications: CTDOH	06/08/2018 09:58	06/08/2018 13:22	TAJ

### Sample Information

**Client Sample ID:** EP-02

**York Sample ID:** 18F0019-02

<u>York Project (SDG) No.</u> 18F0019	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2018 3:00 pm	<u>Date Received</u> 06/01/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
95-63-6	1,2,4-Trimethylbenzene	5.4		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
108-67-8	1,3,5-Trimethylbenzene	5.8		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
91-20-3	Naphthalene	4.2	J	ug/kg dry	2.1	8.5	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/07/2018 07:30	06/07/2018 14:32	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.3	8.5	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/07/2018 07:30	06/07/2018 14:32	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS



**Sample Information**

**Client Sample ID:** EP-02

**York Sample ID:** 18F0019-02

<u>York Project (SDG) No.</u> 18F0019	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2018 3:00 pm	<u>Date Received</u> 06/01/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
108-88-3	Toluene	ND		ug/kg dry	2.1	4.3	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.4	13	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/07/2018 07:30	06/07/2018 14:32	SS
<b>Surrogate Recoveries</b>		<b>Result</b>			<b>Acceptance Range</b>						
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	95.9 %			77-125						
2037-26-5	Surrogate: Toluene-d8	102 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	103 %			76-130						

**Total Solids**

**Log-in Notes:**

**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	85.2		%	0.100	1	SM 2540G Certifications: CTDOH	06/08/2018 09:58	06/08/2018 13:22	TAJ

**Sample Information**

**Client Sample ID:** EP-03

**York Sample ID:** 18F0019-03

<u>York Project (SDG) No.</u> 18F0019	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 31, 2018 3:00 pm	<u>Date Received</u> 06/01/2018
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**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
71-43-2	Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS



### Sample Information

**Client Sample ID:** EP-03

**York Sample ID:** 18F0019-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18F0019

SC18035

Soil

May 31, 2018 3:00 pm

06/01/2018

**Volatile Organics, CP-51 (formerly STARS) List**

**Log-in Notes:**

**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	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/07/2018 07:30	06/07/2018 15:04	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.9	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/07/2018 07:30	06/07/2018 15:04	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
108-88-3	Toluene	ND		ug/kg dry	2.9	5.9	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.8	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/07/2018 07:30	06/07/2018 15:04	SS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	100 %	77-125								
2037-26-5	Surrogate: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: p-Bromofluorobenzene	105 %	76-130								

**Total Solids**

**Log-in Notes:**

**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	90.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/08/2018 09:58	06/08/2018 13:22	TAJ



## Analytical Batch Summary

**Batch ID:** BF80332

**Preparation Method:** EPA 5035A

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0019-01RE1	EP-01	06/07/18
BF80332-BLK1	Blank	06/07/18
BF80332-BLK2	Blank	06/07/18
BF80332-BS1	LCS	06/07/18
BF80332-BSD1	LCS Dup	06/07/18

**Batch ID:** BF80334

**Preparation Method:** EPA 5035A

**Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18F0019-01	EP-01	06/07/18
18F0019-02	EP-02	06/07/18
18F0019-03	EP-03	06/07/18
BF80334-BLK1	Blank	06/07/18
BF80334-BLK2	Blank	06/07/18
BF80334-BS1	LCS	06/07/18
BF80334-BSD1	LCS Dup	06/07/18

**Batch ID:** BF80429

**Preparation Method:** % Solids Prep

**Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18F0019-01	EP-01	06/08/18
18F0019-02	EP-02	06/08/18
18F0019-03	EP-03	06/08/18



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80332 - EPA 5035A**

**Blank (BF80332-BLK1)**

Prepared: 06/07/2018 Analyzed: 06/08/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet								
1,3,5-Trimethylbenzene	ND	5.0	"								
Benzene	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
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	"								
tert-Butylbenzene	ND	5.0	"								
Toluene	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.0		ug/L	50.0		96.1	77-125				
<i>Surrogate: Toluene-d8</i>	55.1		"	50.0		110	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	50.6		"	50.0		101	76-130				

**Blank (BF80332-BLK2)**

Prepared: 06/07/2018 Analyzed: 06/08/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet								
1,3,5-Trimethylbenzene	ND	500	"								
Benzene	ND	500	"								
Ethyl Benzene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
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	"								
tert-Butylbenzene	ND	500	"								
Toluene	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	48.3		ug/L	50.0		96.7	77-125				
<i>Surrogate: Toluene-d8</i>	54.9		"	50.0		110	85-120				
<i>Surrogate: p-Bromofluorobenzene</i>	49.7		"	50.0		99.3	76-130				



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	
		Limit								Units	Level

**Batch BF80332 - EPA 5035A**

**LCS (BF80332-BS1)**

Prepared: 06/07/2018 Analyzed: 06/08/2018

1,2,4-Trimethylbenzene	47		ug/L	50.0		93.6	84-125				
1,3,5-Trimethylbenzene	49		"	50.0		97.3	82-126				
Benzene	48		"	50.0		95.1	77-127				
Ethyl Benzene	51		"	50.0		101	84-125				
Isopropylbenzene	51		"	50.0		102	81-127				
Methyl tert-butyl ether (MTBE)	48		"	50.0		95.3	74-131				
Naphthalene	46		"	50.0		91.7	86-141				
n-Butylbenzene	44		"	50.0		89.0	80-130				
n-Propylbenzene	49		"	50.0		98.5	74-136				
o-Xylene	50		"	50.0		100	83-123				
p- & m- Xylenes	96		"	100		95.6	82-128				
p-Isopropyltoluene	49		"	50.0		97.5	85-125				
sec-Butylbenzene	53		"	50.0		107	83-125				
tert-Butylbenzene	42		"	50.0		84.9	80-127				
Toluene	49		"	50.0		97.7	85-121				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>52.2</i>		<i>"</i>	<i>50.0</i>		<i>104</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>54.2</i>		<i>"</i>	<i>50.0</i>		<i>108</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.4</i>	<i>76-130</i>				

**LCS Dup (BF80332-BSD1)**

Prepared: 06/07/2018 Analyzed: 06/08/2018

1,2,4-Trimethylbenzene	50		ug/L	50.0		99.3	84-125		5.95	30
1,3,5-Trimethylbenzene	49		"	50.0		98.5	82-126		1.23	30
Benzene	45		"	50.0		89.7	77-127		5.89	30
Ethyl Benzene	51		"	50.0		101	84-125		0.00	30
Isopropylbenzene	51		"	50.0		101	81-127		1.02	30
Methyl tert-butyl ether (MTBE)	46		"	50.0		91.1	74-131		4.50	30
Naphthalene	48		"	50.0		96.1	86-141		4.75	30
n-Butylbenzene	44		"	50.0		88.8	80-130		0.202	30
n-Propylbenzene	50		"	50.0		100	74-136		1.89	30
o-Xylene	50		"	50.0		99.1	83-123		1.22	30
p- & m- Xylenes	95		"	100		95.3	82-128		0.304	30
p-Isopropyltoluene	50		"	50.0		101	85-125		3.49	30
sec-Butylbenzene	54		"	50.0		108	83-125		0.896	30
tert-Butylbenzene	43		"	50.0		86.2	80-127		1.59	30
Toluene	49		"	50.0		98.3	85-121		0.592	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>47.9</i>		<i>"</i>	<i>50.0</i>		<i>95.8</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>52.3</i>		<i>"</i>	<i>50.0</i>		<i>105</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.5</i>		<i>"</i>	<i>50.0</i>		<i>99.1</i>	<i>76-130</i>			





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit								Limit			

**Batch BF80334 - EPA 5035A**

**Blank (BF80334-BLK1)**

Prepared & Analyzed: 06/07/2018

1,2,4-Trimethylbenzene	ND	5.0	ug/kg wet										
1,3,5-Trimethylbenzene	ND	5.0	"										
Benzene	ND	5.0	"										
Ethyl Benzene	ND	5.0	"										
Isopropylbenzene	ND	5.0	"										
Methyl tert-butyl ether (MTBE)	ND	5.0	"										
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	"										
tert-Butylbenzene	ND	5.0	"										
Toluene	ND	5.0	"										
Xylenes, Total	ND	15	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.5</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.1</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>50.2</i>		<i>"</i>	<i>50.0</i>		<i>100</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>53.2</i>		<i>"</i>	<i>50.0</i>		<i>106</i>		<i>76-130</i>					

**Blank (BF80334-BLK2)**

Prepared & Analyzed: 06/07/2018

1,2,4-Trimethylbenzene	ND	500	ug/kg wet										
1,3,5-Trimethylbenzene	ND	500	"										
Benzene	ND	500	"										
Ethyl Benzene	ND	500	"										
Isopropylbenzene	ND	500	"										
Methyl tert-butyl ether (MTBE)	ND	500	"										
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	"										
tert-Butylbenzene	ND	500	"										
Toluene	ND	500	"										
Xylenes, Total	ND	1500	"										
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>46.9</i>		<i>ug/L</i>	<i>50.0</i>		<i>93.8</i>		<i>77-125</i>					
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>		<i>85-120</i>					
<i>Surrogate: p-Bromofluorobenzene</i>	<i>52.6</i>		<i>"</i>	<i>50.0</i>		<i>105</i>		<i>76-130</i>					



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Flag
		Limit								Units	

**Batch BF80334 - EPA 5035A**

**LCS (BF80334-BS1)**

Prepared & Analyzed: 06/07/2018

1,2,4-Trimethylbenzene	43		ug/L	50.0		86.4	84-125				
1,3,5-Trimethylbenzene	46		"	50.0		91.8	82-126				
Benzene	49		"	50.0		97.3	77-127				
Ethyl Benzene	47		"	50.0		93.1	84-125				
Isopropylbenzene	45		"	50.0		90.3	81-127				
Methyl tert-butyl ether (MTBE)	51		"	50.0		101	74-131				
Naphthalene	48		"	50.0		95.8	86-141				
n-Butylbenzene	47		"	50.0		94.0	80-130				
n-Propylbenzene	45		"	50.0		89.3	74-136				
o-Xylene	47		"	50.0		93.6	83-123				
p- & m- Xylenes	93		"	100		92.8	82-128				
p-Isopropyltoluene	46		"	50.0		92.0	85-125				
sec-Butylbenzene	49		"	50.0		98.0	83-125				
tert-Butylbenzene	45		"	50.0		90.2	80-127				
Toluene	47		"	50.0		94.4	85-121				
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>48.6</i>		<i>"</i>	<i>50.0</i>		<i>97.3</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.6</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.2</i>		<i>"</i>	<i>50.0</i>		<i>98.4</i>	<i>76-130</i>				

**LCS Dup (BF80334-BSD1)**

Prepared & Analyzed: 06/07/2018

1,2,4-Trimethylbenzene	44		ug/L	50.0		88.6	84-125		2.45	30
1,3,5-Trimethylbenzene	47		"	50.0		94.0	82-126		2.39	30
Benzene	49		"	50.0		97.9	77-127		0.615	30
Ethyl Benzene	47		"	50.0		94.7	84-125		1.79	30
Isopropylbenzene	46		"	50.0		93.0	81-127		2.97	30
Methyl tert-butyl ether (MTBE)	51		"	50.0		101	74-131		0.178	30
Naphthalene	49		"	50.0		97.6	86-141		1.92	30
n-Butylbenzene	48		"	50.0		96.3	80-130		2.35	30
n-Propylbenzene	46		"	50.0		92.0	74-136		3.07	30
o-Xylene	48		"	50.0		95.0	83-123		1.48	30
p- & m- Xylenes	93		"	100		93.2	82-128		0.419	30
p-Isopropyltoluene	47		"	50.0		93.8	85-125		1.98	30
sec-Butylbenzene	50		"	50.0		100	83-125		2.06	30
tert-Butylbenzene	47		"	50.0		93.6	80-127		3.74	30
Toluene	48		"	50.0		96.0	85-121		1.76	30
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>49.3</i>		<i>"</i>	<i>50.0</i>		<i>98.6</i>	<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>99.9</i>	<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>49.9</i>		<i>"</i>	<i>50.0</i>		<i>99.8</i>	<i>76-130</i>			



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18F0019-01	EP-01	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
18F0019-02	EP-02	40mL Vial with Stir Bar-Cool 4° C
18F0019-03	EP-03	40mL Vial with Stir Bar-Cool 4° C



## Sample and Data Qualifiers Relating to This Work Order

- SCAL-E The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
- 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.

### 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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Corrective Action: The client provided a revised COC on 6/4/18 amending the client sample identifications.

Revision Description: corrected client project ID





YORK ANALYTICAL LABORATORIES  
120 PARKWAY DR.  
BRANTFORD, ONTARIO  
L7R 4K6  
TEL: (905) 335-1377  
FAX: (905) 335-0746

# Field Chain-of-Custody Record

NOTE: This is a Chain of Custody form for use in the field. It is not to be used as a Laboratory Receipt form. It is to be used to document the chain of custody for samples collected in the field and transported to the laboratory for analysis.

Page 1 of 1  
York Project No. 18F0019

YOUR Information		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company <b>WCD</b>	<b>SAME</b> Gina Wolfman	<b>SAME</b> Brenda	<b>SB18035</b>	RUSH-Same Day	Summary Report	X		RUSH-Next Day		QA Report	
Address 24 Davis Avenue Poughkeepsie, NY	Name Company Address E-mail	Name Company Address E-mail	Purchase Order #	RUSH-Two Day	CT RCP			RUSH-Three Day		CT RCP DQADUE Pkg	
Phone (845) 452-1688	Contact Gina Wolfman	E-mail	SC18035	RUSH-Four Day	NY ASP A Package	X		Standard (5-7 day)		NY ASP B Package	
E-mail		Samples from NY		Volatiles		Metals		Misc. Org.		Full Lists	

*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.*

Matrix Codes:  
S - soil  
C - other - specify in c.c.  
WW - wastewater  
GW - groundwater  
DW - drinking water  
AA - ambient air  
AV - ambient vapor

Samples Collected/Authorized By: (Signature)  
Name (printed)  
Gina Wolfman

Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)	Container Description
EP-01 EP-02 EP-03	5/31/2018	Soil	NYSDEC CP-61 VOCs only	4, 40-ml vials 1, 8-oz glass
<p>Preservation (check all applicable): 4°C _____ Frozen _____ HCl _____ HNO<sub>3</sub> _____ H<sub>2</sub>SO<sub>4</sub> _____ NaOH _____ ZnAc<sub>2</sub> _____ Ascorbic Acid _____ OTHER _____</p> <p>Special Instructions: Field Filtered _____ Lab to Filter _____</p> <p>Samples Required By: Date/Time Samples Received By: Date/Time Samples Required By: Date/Time Samples Received in LAB By: Date/Time</p>				
<p>Comments: VOA kit 4 X 40ml vials laboratory supplied *Hold 8-oz glass for possible additional analysis</p>				





# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 05/29/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18E1070

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: 05/29/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18E1070

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 May 23, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18E1070-01	SV-01	Soil Vapor	05/22/2018	05/23/2018
18E1070-02	SV-02	Soil Vapor	05/22/2018	05/23/2018
18E1070-03	SV-03	Soil Vapor	05/22/2018	05/23/2018
18E1070-04	SV-04	Soil Vapor	05/22/2018	05/23/2018

## **General Notes for York Project (SDG) No.: 18E1070**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 05/29/2018





### Sample Information

**Client Sample ID:** SV-01

**York Sample ID:** 18E1070-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18E1070	SC18035	Soil Vapor	May 22, 2018 3:00 pm	05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

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	IS-LO	ug/m <sup>3</sup>	0.96	1.396	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 03:07	LDS
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>4.4</b>		ug/m <sup>3</sup>	0.76	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/m <sup>3</sup>	0.96	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.1	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.76	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.55	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	1.0	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
95-63-6	1,2,4-Trimethylbenzene	ND	IS-LO	ug/m <sup>3</sup>	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.1	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.84	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.56	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.65	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.98	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
108-67-8	1,3,5-Trimethylbenzene	ND	IS-LO	ug/m <sup>3</sup>	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.93	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.84	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.65	1.396	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 03:07	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.84	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.0	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
78-93-3	<b>2-Butanone</b>	<b>10</b>		ug/m <sup>3</sup>	0.41	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
591-78-6	* 2-Hexanone	ND		ug/m <sup>3</sup>	1.1	1.396	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 03:07	LDS



### Sample Information

**Client Sample ID:** SV-01

**York Sample ID:** 18E1070-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
108-10-1	4-Methyl-2-pentanone	ND		ug/m <sup>3</sup>	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
67-64-1	<b>Acetone</b>	<b>18</b>		ug/m <sup>3</sup>	0.66	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.30	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
71-43-2	<b>Benzene</b>	<b>1.2</b>		ug/m <sup>3</sup>	0.45	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m <sup>3</sup>	0.72	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-27-4	<b>Bromodichloromethane</b>	<b>8.6</b>		ug/m <sup>3</sup>	0.94	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m <sup>3</sup>	1.4	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.54	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.43	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.22	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.64	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.37	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
67-66-3	<b>Chloroform</b>	<b>110</b>		ug/m <sup>3</sup>	0.68	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
74-87-3	Chloromethane	ND		ug/m <sup>3</sup>	0.29	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.55	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.63	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
110-82-7	Cyclohexane	ND		ug/m <sup>3</sup>	0.48	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.5</b>		ug/m <sup>3</sup>	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
141-78-6	* Ethyl acetate	ND		ug/m <sup>3</sup>	1.0	1.396	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 03:07	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>4.6</b>	IS-LO	ug/m <sup>3</sup>	0.61	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m <sup>3</sup>	1.5	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS



### Sample Information

**Client Sample ID:** SV-01

**York Sample ID:** 18E1070-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-63-0	<b>Isopropanol</b>	<b>12</b>		ug/m <sup>3</sup>	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.50	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-09-2	<b>Methylene chloride</b>	<b>8.0</b>		ug/m <sup>3</sup>	0.97	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
91-20-3	<b>* Naphthalene</b>	<b>12</b>	IS-LO	ug/m <sup>3</sup>	7.3	1.396	EPA TO-15 Certifications: NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
142-82-5	n-Heptane	ND		ug/m <sup>3</sup>	0.57	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
110-54-3	<b>n-Hexane</b>	<b>1.9</b>		ug/m <sup>3</sup>	0.49	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
95-47-6	<b>o-Xylene</b>	<b>3.5</b>	IS-LO	ug/m <sup>3</sup>	0.61	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>11</b>	IS-LO	ug/m <sup>3</sup>	1.2	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
622-96-8	<b>* p-Ethyltoluene</b>	<b>2.0</b>	IS-LO	ug/m <sup>3</sup>	0.69	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
115-07-1	<b>* Propylene</b>	<b>0.79</b>		ug/m <sup>3</sup>	0.24	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
100-42-5	Styrene	ND	IS-LO	ug/m <sup>3</sup>	0.59	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
127-18-4	<b>Tetrachloroethylene</b>	<b>99</b>		ug/m <sup>3</sup>	0.24	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.82	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
108-88-3	<b>Toluene</b>	<b>7.7</b>		ug/m <sup>3</sup>	0.53	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.55	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.63	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
79-01-6	<b>Trichloroethylene</b>	<b>2.3</b>		ug/m <sup>3</sup>	0.19	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-69-4	<b>Trichlorofluoromethane (Freon 11)</b>	<b>2.4</b>		ug/m <sup>3</sup>	0.78	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.49	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.61	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.36	1.396	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 03:07	LDS

Surrogate Recoveries

Result

Acceptance Range





### Sample Information

**Client Sample ID:** SV-01

**York Sample ID:** 18E1070-01

<u>York Project (SDG) No.</u> 18E1070	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> May 22, 2018 3:00 pm	<u>Date Received</u> 05/23/2018
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
460-00-4	Surrogate: <i>p</i> -Bromofluorobenzene	168 %	S-08		70-130					

### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 18E1070-02

<u>York Project (SDG) No.</u> 18E1070	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> May 22, 2018 3:00 pm	<u>Date Received</u> 05/23/2018
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

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	IS-LO	ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
71-55-6	1,1,1-Trichloroethane	ND		ug/m <sup>3</sup>	0.87	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.2	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.87	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.64	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.63	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
120-82-1	1,2,4-Trichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	1.2	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>2.0</b>	IS-LO	ug/m <sup>3</sup>	0.78	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.2	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.96	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.64	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.73	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>0.78</b>	IS-LO	ug/m <sup>3</sup>	0.78	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 18E1070-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.96	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.73	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.96	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
78-93-3	<b>2-Butanone</b>	<b>16</b>		ug/m <sup>3</sup>	0.47	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
591-78-6	* <b>2-Hexanone</b>	<b>4.6</b>		ug/m <sup>3</sup>	1.3	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.5	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>4.6</b>		ug/m <sup>3</sup>	0.65	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
67-64-1	<b>Acetone</b>	<b>37</b>		ug/m <sup>3</sup>	0.75	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.34	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
71-43-2	<b>Benzene</b>	<b>2.0</b>		ug/m <sup>3</sup>	0.51	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m <sup>3</sup>	0.82	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m <sup>3</sup>	1.6	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.62	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-15-0	Carbon disulfide	ND		ug/m <sup>3</sup>	0.49	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
56-23-5	<b>Carbon tetrachloride</b>	<b>0.30</b>		ug/m <sup>3</sup>	0.25	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.73	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.42	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
67-66-3	<b>Chloroform</b>	<b>0.93</b>		ug/m <sup>3</sup>	0.78	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
74-87-3	<b>Chloromethane</b>	<b>0.33</b>		ug/m <sup>3</sup>	0.33	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.63	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.72	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS



### Sample Information

**Client Sample ID:** SV-02

**York Sample ID:** 18E1070-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-82-7	Cyclohexane	0.77		ug/m <sup>3</sup>	0.55	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.4	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-71-8	Dichlorodifluoromethane	2.7		ug/m <sup>3</sup>	0.79	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
141-78-6	* Ethyl acetate	1.5		ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
100-41-4	Ethyl Benzene	4.3	IS-LO	ug/m <sup>3</sup>	0.69	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m <sup>3</sup>	1.7	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
67-63-0	Isopropanol	23		ug/m <sup>3</sup>	0.78	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
80-62-6	Methyl Methacrylate	3.8		ug/m <sup>3</sup>	0.65	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m <sup>3</sup>	0.57	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
75-09-2	Methylene chloride	18		ug/m <sup>3</sup>	1.1	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
91-20-3	* Naphthalene	11	IS-LO	ug/m <sup>3</sup>	8.3	1.589	EPA TO-15 Certifications: NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
142-82-5	n-Heptane	1.3		ug/m <sup>3</sup>	0.65	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
110-54-3	n-Hexane	1.6		ug/m <sup>3</sup>	0.56	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
95-47-6	o-Xylene	3.7	IS-LO	ug/m <sup>3</sup>	0.69	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
179601-23-1	p- & m- Xylenes	12	IS-LO	ug/m <sup>3</sup>	1.4	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
622-96-8	* p-Ethyltoluene	2.4	IS-LO	ug/m <sup>3</sup>	0.78	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
115-07-1	* Propylene	3.3		ug/m <sup>3</sup>	0.27	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
100-42-5	Styrene	0.81	IS-LO	ug/m <sup>3</sup>	0.68	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
127-18-4	Tetrachloroethylene	9.7		ug/m <sup>3</sup>	0.27	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.94	1.589	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 04:12	LDS
108-88-3	Toluene	9.6		ug/m <sup>3</sup>	0.60	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.63	1.589	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 04:12	LDS



Sample Information

Client Sample ID: SV-02

York Sample ID: 18E1070-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include trans-1,3-Dichloropropylene, Trichloroethylene, Trichlorofluoromethane (Freon 11), Vinyl acetate, Vinyl bromide, Vinyl Chloride, and Surrogate Recoveries for p-Bromofluorobenzene.

Sample Information

Client Sample ID: SV-03

York Sample ID: 18E1070-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113), 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethylene, 1,2,4-Trichlorobenzene, and 1,2,4-Trimethylbenzene.



### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 18E1070-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.0	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.54	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.62	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	0.94	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>7.8</b>	IS-LO	ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	0.89	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.62	1.34	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 05:17	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.81	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	0.97	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
78-93-3	<b>2-Butanone</b>	<b>17</b>		ug/m <sup>3</sup>	0.40	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
591-78-6	* <b>2-Hexanone</b>	<b>4.7</b>		ug/m <sup>3</sup>	1.1	1.34	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 05:17	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.1	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>5.8</b>		ug/m <sup>3</sup>	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
67-64-1	<b>Acetone</b>	<b>120</b>		ug/m <sup>3</sup>	0.64	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.29	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
71-43-2	<b>Benzene</b>	<b>20</b>		ug/m <sup>3</sup>	0.43	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m <sup>3</sup>	0.69	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	0.90	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m <sup>3</sup>	1.4	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.52	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-15-0	<b>Carbon disulfide</b>	<b>0.71</b>		ug/m <sup>3</sup>	0.42	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS



### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 18E1070-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	<b>Carbon tetrachloride</b>	<b>0.25</b>		ug/m <sup>3</sup>	0.21	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.62	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.35	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
67-66-3	Chloroform	ND		ug/m <sup>3</sup>	0.65	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
74-87-3	<b>Chloromethane</b>	<b>0.28</b>		ug/m <sup>3</sup>	0.28	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.53	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.61	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
110-82-7	<b>Cyclohexane</b>	<b>1.0</b>		ug/m <sup>3</sup>	0.46	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.1	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>2.1</b>		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
141-78-6	* Ethyl acetate	<b>1.9</b>		ug/m <sup>3</sup>	0.97	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>860</b>	IS-LO	ug/m <sup>3</sup>	5.8	13.4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 13:58	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m <sup>3</sup>	1.4	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
67-63-0	<b>Isopropanol</b>	<b>1.4</b>		ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
1634-04-4	<b>Methyl tert-butyl ether (MTBE)</b>	<b>9.6</b>		ug/m <sup>3</sup>	0.48	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-09-2	<b>Methylene chloride</b>	<b>5.6</b>		ug/m <sup>3</sup>	0.93	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
91-20-3	* Naphthalene	<b>18</b>	IS-LO	ug/m <sup>3</sup>	7.0	1.34	EPA TO-15 Certifications: NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
142-82-5	<b>n-Heptane</b>	<b>18</b>		ug/m <sup>3</sup>	0.55	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
110-54-3	<b>n-Hexane</b>	<b>2.7</b>		ug/m <sup>3</sup>	0.47	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
95-47-6	<b>o-Xylene</b>	<b>500</b>	IS-LO	ug/m <sup>3</sup>	5.8	13.4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 13:58	LDS
179601-23-1	<b>p- &amp; m- Xylenes</b>	<b>2600</b>	IS-LO	ug/m <sup>3</sup>	12	13.4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 13:58	LDS





### Sample Information

**Client Sample ID:** SV-03

**York Sample ID:** 18E1070-03

<u>York Project (SDG) No.</u> 18E1070	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> May 22, 2018 3:00 pm	<u>Date Received</u> 05/23/2018
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
622-96-8	* p-Ethyltoluene	19	IS-LO	ug/m <sup>3</sup>	0.66	1.34	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 05:17	LDS
115-07-1	* Propylene	4.0		ug/m <sup>3</sup>	0.23	1.34	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 05:17	LDS
100-42-5	Styrene	ND	IS-LO	ug/m <sup>3</sup>	0.57	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
127-18-4	Tetrachloroethylene	450		ug/m <sup>3</sup>	0.23	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
109-99-9	* Tetrahydrofuran	ND		ug/m <sup>3</sup>	0.79	1.34	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 05:17	LDS
108-88-3	Toluene	1000		ug/m <sup>3</sup>	5.0	13.4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 13:58	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.53	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.61	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
79-01-6	Trichloroethylene	0.79		ug/m <sup>3</sup>	0.18	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.5		ug/m <sup>3</sup>	0.75	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.47	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.59	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.34	1.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 05:17	LDS
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
460-00-4	Surrogate: p-Bromofluorobenzene	160 %	S-08	70-130						
460-00-4	Surrogate: p-Bromofluorobenzene	143 %	S-08	70-130						

### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 18E1070-04

<u>York Project (SDG) No.</u> 18E1070	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil Vapor	<u>Collection Date/Time</u> May 22, 2018 3:00 pm	<u>Date Received</u> 05/23/2018
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**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

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	IS-LO	ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 18E1070-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	<b>1,1,1-Trichloroethane</b>	<b>7.1</b>		ug/m <sup>3</sup>	0.84	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
79-34-5	1,1,2,2-Tetrachloroethane	ND	IS-LO	ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m <sup>3</sup>	1.2	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
79-00-5	1,1,2-Trichloroethane	ND		ug/m <sup>3</sup>	0.84	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-34-3	1,1-Dichloroethane	ND		ug/m <sup>3</sup>	0.62	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-35-4	1,1-Dichloroethylene	ND		ug/m <sup>3</sup>	0.61	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
120-82-1	<b>1,2,4-Trichlorobenzene</b>	<b>27</b>	IS-LO	ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>26</b>	IS-LO	ug/m <sup>3</sup>	0.75	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
106-93-4	1,2-Dibromoethane	ND		ug/m <sup>3</sup>	1.2	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
95-50-1	1,2-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.92	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
107-06-2	1,2-Dichloroethane	ND		ug/m <sup>3</sup>	0.62	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
78-87-5	1,2-Dichloropropane	ND		ug/m <sup>3</sup>	0.71	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>18</b>	IS-LO	ug/m <sup>3</sup>	0.75	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
106-99-0	1,3-Butadiene	ND		ug/m <sup>3</sup>	1.0	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
541-73-1	1,3-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.92	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
142-28-9	* 1,3-Dichloropropane	ND		ug/m <sup>3</sup>	0.71	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS
106-46-7	1,4-Dichlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.92	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
123-91-1	1,4-Dioxane	ND		ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
78-93-3	<b>2-Butanone</b>	<b>18</b>		ug/m <sup>3</sup>	0.45	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
591-78-6	* <b>2-Hexanone</b>	<b>8.1</b>		ug/m <sup>3</sup>	1.3	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS
107-05-1	3-Chloropropene	ND		ug/m <sup>3</sup>	2.4	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
108-10-1	<b>4-Methyl-2-pentanone</b>	<b>7.0</b>		ug/m <sup>3</sup>	0.63	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS



## Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 18E1070-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	<b>Acetone</b>	<b>470</b>	IS-LO	ug/m <sup>3</sup>	7.3	15.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 14:59	LDS
107-13-1	Acrylonitrile	ND		ug/m <sup>3</sup>	0.33	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
71-43-2	<b>Benzene</b>	<b>16</b>		ug/m <sup>3</sup>	0.49	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
100-44-7	Benzyl chloride	ND	IS-LO	ug/m <sup>3</sup>	0.79	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-27-4	Bromodichloromethane	ND		ug/m <sup>3</sup>	1.0	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-25-2	Bromoform	ND	IS-LO	ug/m <sup>3</sup>	1.6	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
74-83-9	Bromomethane	ND		ug/m <sup>3</sup>	0.60	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-15-0	<b>Carbon disulfide</b>	<b>1.8</b>		ug/m <sup>3</sup>	0.48	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
56-23-5	Carbon tetrachloride	ND		ug/m <sup>3</sup>	0.24	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
108-90-7	Chlorobenzene	ND	IS-LO	ug/m <sup>3</sup>	0.71	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-00-3	Chloroethane	ND		ug/m <sup>3</sup>	0.40	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
67-66-3	<b>Chloroform</b>	<b>1.1</b>		ug/m <sup>3</sup>	0.75	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
74-87-3	<b>Chloromethane</b>	<b>0.35</b>		ug/m <sup>3</sup>	0.32	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
156-59-2	<b>cis-1,2-Dichloroethylene</b>	<b>1.6</b>		ug/m <sup>3</sup>	0.61	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.70	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
110-82-7	<b>Cyclohexane</b>	<b>3.5</b>		ug/m <sup>3</sup>	0.53	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
124-48-1	Dibromochloromethane	ND		ug/m <sup>3</sup>	1.3	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-71-8	<b>Dichlorodifluoromethane</b>	<b>5.8</b>		ug/m <sup>3</sup>	0.76	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
141-78-6	* Ethyl acetate	<b>2.4</b>		ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS
100-41-4	<b>Ethyl Benzene</b>	<b>1400</b>	IS-LO	ug/m <sup>3</sup>	6.7	15.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 14:59	LDS
87-68-3	Hexachlorobutadiene	ND	IS-LO	ug/m <sup>3</sup>	1.6	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
67-63-0	<b>Isopropanol</b>	<b>15</b>		ug/m <sup>3</sup>	0.75	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
80-62-6	Methyl Methacrylate	ND		ug/m <sup>3</sup>	0.63	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS



### Sample Information

**Client Sample ID:** SV-04

**York Sample ID:** 18E1070-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1070

SC18035

Soil Vapor

May 22, 2018 3:00 pm

05/23/2018

**Volatile Organics, EPA TO15 Full List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	43		ug/m <sup>3</sup>	0.55	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-09-2	Methylene chloride	17		ug/m <sup>3</sup>	1.1	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
91-20-3	* Naphthalene	27	IS-LO	ug/m <sup>3</sup>	8.0	1.534	EPA TO-15 Certifications: NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
142-82-5	n-Heptane	13		ug/m <sup>3</sup>	0.63	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
110-54-3	n-Hexane	7.9		ug/m <sup>3</sup>	0.54	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
95-47-6	o-Xylene	670	IS-LO	ug/m <sup>3</sup>	6.7	15.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 14:59	LDS
179601-23-1	p- & m- Xylenes	4400	IS-LO	ug/m <sup>3</sup>	13	15.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 14:59	LDS
622-96-8	* p-Ethyltoluene	49	IS-LO	ug/m <sup>3</sup>	0.75	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS
115-07-1	* Propylene	11		ug/m <sup>3</sup>	0.26	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS
100-42-5	Styrene	ND	IS-LO	ug/m <sup>3</sup>	0.65	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
127-18-4	Tetrachloroethylene	490		ug/m <sup>3</sup>	2.6	15.34	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/29/2018 14:59	LDS
109-99-9	* Tetrahydrofuran	38		ug/m <sup>3</sup>	0.90	1.534	EPA TO-15 Certifications:	05/25/2018 16:11	05/26/2018 06:22	LDS
108-88-3	Toluene	140		ug/m <sup>3</sup>	0.58	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m <sup>3</sup>	0.61	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m <sup>3</sup>	0.70	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
79-01-6	Trichloroethylene	19		ug/m <sup>3</sup>	0.21	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-69-4	Trichlorofluoromethane (Freon 11)	1.9		ug/m <sup>3</sup>	0.86	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
108-05-4	Vinyl acetate	ND		ug/m <sup>3</sup>	0.54	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
593-60-2	Vinyl bromide	ND		ug/m <sup>3</sup>	0.67	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
75-01-4	Vinyl Chloride	ND		ug/m <sup>3</sup>	0.39	1.534	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-Queens	05/25/2018 16:11	05/26/2018 06:22	LDS
	<b>Surrogate Recoveries</b>	<b>Result</b>					<b>Acceptance Range</b>			
460-00-4	Surrogate: p-Bromofluorobenzene	149 %	S-08				70-130			
460-00-4	Surrogate: p-Bromofluorobenzene	160 %	S-08				70-130			



## Analytical Batch Summary

**Batch ID:** BE81402

**Preparation Method:** EPA TO15 PREP

**Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18E1070-01	SV-01	05/25/18
18E1070-02	SV-02	05/25/18
18E1070-03	SV-03	05/25/18
18E1070-04	SV-04	05/25/18
BE81402-BLK1	Blank	05/25/18
BE81402-BS1	LCS	05/25/18

**Batch ID:** BE81408

**Preparation Method:** EPA TO15 PREP

**Prepared By:** LDS

YORK Sample ID	Client Sample ID	Preparation Date
18E1070-03RE1	SV-03	05/25/18
18E1070-04RE1	SV-04	05/25/18
BE81408-BLK1	Blank	05/29/18
BE81408-BS1	LCS	05/29/18



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE81402 - EPA TO15 PREP

Blank (BE81402-BLK1)

Prepared & Analyzed: 05/25/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m <sup>3</sup>								
1,1,1-Trichloroethane	ND	0.55	"								
1,1,2,2-Tetrachloroethane	ND	0.69	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"								
1,1,2-Trichloroethane	ND	0.55	"								
1,1-Dichloroethane	ND	0.40	"								
1,1-Dichloroethylene	ND	0.40	"								
1,2,4-Trichlorobenzene	ND	0.74	"								
1,2,4-Trimethylbenzene	ND	0.49	"								
1,2-Dibromoethane	ND	0.77	"								
1,2-Dichlorobenzene	ND	0.60	"								
1,2-Dichloroethane	ND	0.40	"								
1,2-Dichloropropane	ND	0.46	"								
1,2-Dichlorotetrafluoroethane	ND	0.70	"								
1,3,5-Trimethylbenzene	ND	0.49	"								
1,3-Butadiene	ND	0.66	"								
1,3-Dichlorobenzene	ND	0.60	"								
1,3-Dichloropropane	ND	0.46	"								
1,4-Dichlorobenzene	ND	0.60	"								
1,4-Dioxane	ND	0.72	"								
2-Butanone	ND	0.29	"								
2-Hexanone	ND	0.82	"								
3-Chloropropene	ND	1.6	"								
4-Methyl-2-pentanone	ND	0.41	"								
Acetone	ND	0.48	"								
Acrylonitrile	ND	0.22	"								
Benzene	ND	0.32	"								
Benzyl chloride	ND	0.52	"								
Bromodichloromethane	ND	0.67	"								
Bromoform	ND	1.0	"								
Bromomethane	ND	0.39	"								
Carbon disulfide	ND	0.31	"								
Carbon tetrachloride	ND	0.16	"								
Chlorobenzene	ND	0.46	"								
Chloroethane	ND	0.26	"								
Chloroform	ND	0.49	"								
Chloromethane	ND	0.21	"								
cis-1,2-Dichloroethylene	ND	0.40	"								
cis-1,3-Dichloropropylene	ND	0.45	"								
Cyclohexane	ND	0.34	"								
Dibromochloromethane	ND	0.85	"								
Dichlorodifluoromethane	ND	0.49	"								
Ethyl acetate	ND	0.72	"								
Ethyl Benzene	ND	0.43	"								
Hexachlorobutadiene	ND	1.1	"								
Isopropanol	ND	0.49	"								
Methyl Methacrylate	ND	0.41	"								
Methyl tert-butyl ether (MTBE)	ND	0.36	"								
Methylene chloride	ND	0.69	"								
Naphthalene	ND	5.2	"								





Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE81402 - EPA TO15 PREP

Blank (BE81402-BLK1)

Prepared & Analyzed: 05/25/2018

n-Heptane	ND	0.41	ug/m <sup>3</sup>								
n-Hexane	ND	0.35	"								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								
Surrogate: p-Bromofluorobenzene	9.18		ppbv	10.0		91.8	70-130				

LCS (BE81402-BS1)

Prepared & Analyzed: 05/25/2018

1,1,1,2-Tetrachloroethane	10.1		ppbv	10.0		101	70-130				
1,1,1-Trichloroethane	11.3		"	10.0		113	70-130				
1,1,2,2-Tetrachloroethane	10.1		"	10.0		101	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	70-130				
1,1,2-Trichloroethane	9.95		"	10.0		99.5	70-130				
1,1-Dichloroethane	10.7		"	10.0		107	70-130				
1,1-Dichloroethylene	11.5		"	10.0		115	70-130				
1,2,4-Trichlorobenzene	7.94		"	10.0		79.4	70-130				
1,2,4-Trimethylbenzene	10.6		"	10.0		106	70-130				
1,2-Dibromoethane	9.79		"	10.0		97.9	70-130				
1,2-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,2-Dichloroethane	10.3		"	10.0		103	70-130				
1,2-Dichloropropane	9.79		"	10.0		97.9	70-130				
1,2-Dichlorotetrafluoroethane	11.2		"	10.0		112	70-130				
1,3,5-Trimethylbenzene	10.3		"	10.0		103	70-130				
1,3-Butadiene	12.3		"	10.0		123	70-130				
1,3-Dichlorobenzene	10.4		"	10.0		104	70-130				
1,3-Dichloropropane	9.54		"	10.0		95.4	70-130				
1,4-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,4-Dioxane	10.5		"	10.0		105	70-130				
2-Butanone	9.91		"	10.0		99.1	70-130				
2-Hexanone	9.69		"	10.0		96.9	70-130				
3-Chloropropene	10.4		"	10.0		104	70-130				
4-Methyl-2-pentanone	9.05		"	10.0		90.5	70-130				
Acetone	9.19		"	10.0		91.9	70-130				
Acrylonitrile	10.4		"	10.0		104	70-130				
Benzene	11.0		"	10.0		110	70-130				
Benzyl chloride	8.97		"	10.0		89.7	70-130				
Bromodichloromethane	9.86		"	10.0		98.6	70-130				
Bromoform	10.8		"	10.0		108	70-130				
Bromomethane	11.1		"	10.0		111	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE81402 - EPA TO15 PREP

LCS (BE81402-BS1)

Prepared & Analyzed: 05/25/2018

Carbon disulfide	11.5		ppbv	10.0		115	70-130				
Carbon tetrachloride	11.8		"	10.0		118	70-130				
Chlorobenzene	9.82		"	10.0		98.2	70-130				
Chloroethane	10.8		"	10.0		108	70-130				
Chloroform	10.8		"	10.0		108	70-130				
Chloromethane	12.6		"	10.0		126	70-130				
cis-1,2-Dichloroethylene	12.1		"	10.0		121	70-130				
cis-1,3-Dichloropropylene	10.0		"	10.0		100	70-130				
Cyclohexane	10.4		"	10.0		104	70-130				
Dibromochloromethane	10.6		"	10.0		106	70-130				
Dichlorodifluoromethane	11.6		"	10.0		116	70-130				
Ethyl acetate	10.2		"	10.0		102	70-130				
Ethyl Benzene	9.70		"	10.0		97.0	70-130				
Hexachlorobutadiene	11.3		"	10.0		113	70-130				
Isopropanol	8.46		"	10.0		84.6	70-130				
Methyl Methacrylate	9.92		"	10.0		99.2	70-130				
Methyl tert-butyl ether (MTBE)	11.0		"	10.0		110	70-130				
Methylene chloride	9.43		"	10.0		94.3	70-130				
Naphthalene	8.13		"	10.0		81.3	70-130				
n-Heptane	10.5		"	10.0		105	70-130				
n-Hexane	10.5		"	10.0		105	70-130				
o-Xylene	10.3		"	10.0		103	70-130				
p- & m- Xylenes	20.3		"	20.0		102	70-130				
p-Ethyltoluene	10.8		"	10.0		108	70-130				
Propylene	10.2		"	10.0		102	70-130				
Styrene	10.7		"	10.0		107	70-130				
Tetrachloroethylene	8.89		"	10.0		88.9	70-130				
Tetrahydrofuran	9.93		"	10.0		99.3	70-130				
Toluene	9.60		"	10.0		96.0	70-130				
trans-1,2-Dichloroethylene	10.9		"	10.0		109	70-130				
trans-1,3-Dichloropropylene	10.4		"	10.0		104	70-130				
Trichloroethylene	9.96		"	10.0		99.6	70-130				
Trichlorofluoromethane (Freon 11)	11.4		"	10.0		114	70-130				
Vinyl acetate	10.9		"	10.0		109	70-130				
Vinyl bromide	11.5		"	10.0		115	70-130				
Vinyl Chloride	12.5		"	10.0		125	70-130				
Surrogate: p-Bromofluorobenzene	10.5		"	10.0		105	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

Batch BE81408 - EPA TO15 PREP

Blank (BE81408-BLK1)

Prepared & Analyzed: 05/29/2018

1,1,1,2-Tetrachloroethane	ND	0.69	ug/m <sup>3</sup>
1,1,1-Trichloroethane	ND	0.55	"
1,1,2,2-Tetrachloroethane	ND	0.69	"
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.77	"
1,1,2-Trichloroethane	ND	0.55	"
1,1-Dichloroethane	ND	0.40	"
1,1-Dichloroethylene	ND	0.40	"
1,2,4-Trichlorobenzene	ND	0.74	"
1,2,4-Trimethylbenzene	ND	0.49	"
1,2-Dibromoethane	ND	0.77	"
1,2-Dichlorobenzene	ND	0.60	"
1,2-Dichloroethane	ND	0.40	"
1,2-Dichloropropane	ND	0.46	"
1,2-Dichlorotetrafluoroethane	ND	0.70	"
1,3,5-Trimethylbenzene	ND	0.49	"
1,3-Butadiene	ND	0.66	"
1,3-Dichlorobenzene	ND	0.60	"
1,3-Dichloropropane	ND	0.46	"
1,4-Dichlorobenzene	ND	0.60	"
1,4-Dioxane	ND	0.72	"
2-Butanone	ND	0.29	"
2-Hexanone	ND	0.82	"
3-Chloropropene	ND	1.6	"
4-Methyl-2-pentanone	ND	0.41	"
Acetone	ND	0.48	"
Acrylonitrile	ND	0.22	"
Benzene	ND	0.32	"
Benzyl chloride	ND	0.52	"
Bromodichloromethane	ND	0.67	"
Bromoform	ND	1.0	"
Bromomethane	ND	0.39	"
Carbon disulfide	ND	0.31	"
Carbon tetrachloride	ND	0.16	"
Chlorobenzene	ND	0.46	"
Chloroethane	ND	0.26	"
Chloroform	ND	0.49	"
Chloromethane	ND	0.21	"
cis-1,2-Dichloroethylene	ND	0.40	"
cis-1,3-Dichloropropylene	ND	0.45	"
Cyclohexane	ND	0.34	"
Dibromochloromethane	ND	0.85	"
Dichlorodifluoromethane	ND	0.49	"
Ethyl acetate	ND	0.72	"
Ethyl Benzene	ND	0.43	"
Hexachlorobutadiene	ND	1.1	"
Isopropanol	ND	0.49	"
Methyl Methacrylate	ND	0.41	"
Methyl tert-butyl ether (MTBE)	ND	0.36	"
Methylene chloride	ND	0.69	"
Naphthalene	ND	5.2	"
n-Heptane	ND	0.41	"



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BE81408 - EPA TO15 PREP

Blank (BE81408-BLK1)

Prepared & Analyzed: 05/29/2018

n-Hexane	ND	0.35	ug/m <sup>3</sup>								
o-Xylene	ND	0.43	"								
p- & m- Xylenes	ND	0.87	"								
p-Ethyltoluene	ND	0.49	"								
Propylene	ND	0.17	"								
Styrene	ND	0.43	"								
Tetrachloroethylene	ND	0.17	"								
Tetrahydrofuran	ND	0.59	"								
Toluene	ND	0.38	"								
trans-1,2-Dichloroethylene	ND	0.40	"								
trans-1,3-Dichloropropylene	ND	0.45	"								
Trichloroethylene	ND	0.13	"								
Trichlorofluoromethane (Freon 11)	ND	0.56	"								
Vinyl acetate	ND	0.35	"								
Vinyl bromide	ND	0.44	"								
Vinyl Chloride	ND	0.26	"								

Surrogate: p-Bromofluorobenzene 10.6 ppbv 10.0 106 70-130

LCS (BE81408-BS1)

Prepared & Analyzed: 05/29/2018

1,1,1,2-Tetrachloroethane	11.1		ppbv	10.0		111	70-130				
1,1,1-Trichloroethane	10.7		"	10.0		107	70-130				
1,1,2,2-Tetrachloroethane	11.4		"	10.0		114	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.1		"	10.0		111	70-130				
1,1,2-Trichloroethane	11.0		"	10.0		110	70-130				
1,1-Dichloroethane	10.5		"	10.0		105	70-130				
1,1-Dichloroethylene	11.0		"	10.0		110	70-130				
1,2,4-Trichlorobenzene	8.63		"	10.0		86.3	70-130				
1,2,4-Trimethylbenzene	12.0		"	10.0		120	70-130				
1,2-Dibromoethane	10.8		"	10.0		108	70-130				
1,2-Dichlorobenzene	12.3		"	10.0		123	70-130				
1,2-Dichloroethane	9.54		"	10.0		95.4	70-130				
1,2-Dichloropropane	10.7		"	10.0		107	70-130				
1,2-Dichlorotetrafluoroethane	11.2		"	10.0		112	70-130				
1,3,5-Trimethylbenzene	11.5		"	10.0		115	70-130				
1,3-Butadiene	12.6		"	10.0		126	70-130				
1,3-Dichlorobenzene	11.7		"	10.0		117	70-130				
1,3-Dichloropropane	10.4		"	10.0		104	70-130				
1,4-Dichlorobenzene	11.8		"	10.0		118	70-130				
1,4-Dioxane	11.6		"	10.0		116	70-130				
2-Butanone	9.31		"	10.0		93.1	70-130				
2-Hexanone	10.4		"	10.0		104	70-130				
3-Chloropropene	9.64		"	10.0		96.4	70-130				
4-Methyl-2-pentanone	9.48		"	10.0		94.8	70-130				
Acetone	8.61		"	10.0		86.1	70-130				
Acrylonitrile	9.98		"	10.0		99.8	70-130				
Benzene	10.9		"	10.0		109	70-130				
Benzyl chloride	9.95		"	10.0		99.5	70-130				
Bromodichloromethane	10.7		"	10.0		107	70-130				
Bromoform	11.8		"	10.0		118	70-130				
Bromomethane	11.4		"	10.0		114	70-130				
Carbon disulfide	11.4		"	10.0		114	70-130				



Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

Batch BE81408 - EPA TO15 PREP

LCS (BE81408-BS1)

Prepared & Analyzed: 05/29/2018

Carbon tetrachloride	11.2		ppbv	10.0		112	70-130				
Chlorobenzene	11.2		"	10.0		112	70-130				
Chloroethane	10.9		"	10.0		109	70-130				
Chloroform	10.4		"	10.0		104	70-130				
Chloromethane	12.9		"	10.0		129	70-130				
cis-1,2-Dichloroethylene	11.0		"	10.0		110	70-130				
cis-1,3-Dichloropropylene	11.0		"	10.0		110	70-130				
Cyclohexane	9.94		"	10.0		99.4	70-130				
Dibromochloromethane	11.5		"	10.0		115	70-130				
Dichlorodifluoromethane	12.4		"	10.0		124	70-130				
Ethyl acetate	9.61		"	10.0		96.1	70-130				
Ethyl Benzene	10.9		"	10.0		109	70-130				
Hexachlorobutadiene	12.7		"	10.0		127	70-130				
Isopropanol	7.81		"	10.0		78.1	70-130				
Methyl Methacrylate	10.9		"	10.0		109	70-130				
Methyl tert-butyl ether (MTBE)	10.4		"	10.0		104	70-130				
Methylene chloride	9.05		"	10.0		90.5	70-130				
Naphthalene	8.95		"	10.0		89.5	70-130				
n-Heptane	9.77		"	10.0		97.7	70-130				
n-Hexane	10.1		"	10.0		101	70-130				
o-Xylene	11.6		"	10.0		116	70-130				
p- & m- Xylenes	23.3		"	20.0		117	70-130				
p-Ethyltoluene	12.3		"	10.0		123	70-130				
Propylene	10.7		"	10.0		107	70-130				
Styrene	11.9		"	10.0		119	70-130				
Tetrachloroethylene	9.70		"	10.0		97.0	70-130				
Tetrahydrofuran	9.31		"	10.0		93.1	70-130				
Toluene	10.8		"	10.0		108	70-130				
trans-1,2-Dichloroethylene	10.4		"	10.0		104	70-130				
trans-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Trichloroethylene	11.0		"	10.0		110	70-130				
Trichlorofluoromethane (Freon 11)	11.2		"	10.0		112	70-130				
Vinyl acetate	10.5		"	10.0		105	70-130				
Vinyl bromide	11.3		"	10.0		113	70-130				
Vinyl Chloride	13.7		"	10.0		137	70-130	High Bias			
Surrogate: p-Bromofluorobenzene	11.7		"	10.0		117	70-130				







## Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
IS-LO	The internal std associated with this target compound did not meet acceptance criteria (area <50% CCV) at the stated dilution due to matrix effects. Sample was rerun to confirm matrix effects.
CCV-A	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>30% Difference for average Rf). This applies to detected analytes only.

### 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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YORK Analytical Laboratories, Inc.  
 120 Research Drive  
 Stratford, CT 06615  
 clientservices@yorklab.com  
 www.yorklab.com

# Field Chain-of-Custody Record - AIR

YORK Project No.  
**18E1070**

Your Page 1 of 1

NOTE: 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. signature binds you to YORK's Standard Terms & Conditions.

<b>YOUR Information</b>		<b>Report To:</b>		<b>Invoice To:</b>		<b>YOUR Project Number</b>		<b>Turn-Around Time</b>	
Company WCD Group LLC	Company	Company		Company		SC18035		RUSH - Next Day	
Address 24 Davis Ave	Address	Address		Address		SC18035 . 40		RUSH - Two Day	
Phone Pawlingville NY	Phone	Phone		Phone				RUSH - Three Day	
Contact CHSD452 1658	Contact	Contact		Contact				RUSH - Four Day	
E-mail Gino Wilfman	E-mail	E-mail		E-mail				Standard (5-7 Day)	
E-mail awilfman@wcdgroup.com		E-mail		E-mail					

<b>Report / EDD Type</b> (circle selections)		<b>Report / EDD Type</b> (circle selections)		<b>YORK Reg. Comp.</b>	
AI - Indoor Ambient Air	CT RCP	Standard Excel EDD	CT RCP	Compared to the following	Regulation(s): (please fill in)
AO - Outdoor Amb. Air	QA Report	EQUS (Standard)	CT RCP DQ/DUE		
AE - Vapor Extraction Well/ Process Gas/Effluent	NY ASP A Package	NYSDEC EQUS	NJDEP Reduced Deliv.		
AS - Soil Vapor/Sub-Slab	NY ASP B Package		NJDKQP		
	Other:				

Sample Identification	Date/Time Sampled	Air Matrix	Please enter the following REQUIRED Field Data		Flow Cont. ID	Analysis Requested
			Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)		
SU-01	5/22/2018	AS	-27	-3	5707	T0-15
SU-02	↓	↓	-29	-5	5603	↓
SU-03	↓	↓	-30	-3	3539	↓
SU-04	↓	↓	-28	-5	0862	↓

<b>Comments:</b>		<b>Detection Limits Required</b>		<b>Sampling Media</b>	
Samples Relinquished by / Company	Date/Time	≤ 1 ug/m <sup>3</sup>	NYSDEC V1 Limits	6 Liter Canister	X
Cherie	5-23-18	Routine Survey	Other	Tecliar Bag	
Samples Received by / Company	Date/Time	Samples Relinquished by / Company		Date/Time	
Cherie	5-23-18	Samples Received by / Company		Date/Time	
G. Hale/York	5/23/18-1547	Samples Relinquished by / Company		Date/Time	5/23/18
Cherie	5-23-18	Samples Received by / Company		Date/Time	1909
Cherie	5-23-18	Samples Relinquished by / Company		Date/Time	5-24-18
Cherie	5-23-18	Samples Received by / Company		Date/Time	830AM



# Technical Report

prepared for:

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
**Attention: Gina Wolfman**

Report Date: 06/08/2018  
**Client Project ID: SC18035**  
York Project (SDG) No.: 18E1380

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: 06/08/2018  
Client Project ID: SC18035  
York Project (SDG) No.: 18E1380

**WCD Group - Poughkeepsie NY**  
24 Davis Avenue  
Poughkeepsie NY, 12603  
Attention: Gina Wolfman

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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 May 31, 2018 and listed below. The project was identified as your project: **SC18035**.

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>
18E1380-01	WC-01v	Soil	05/30/2018	05/31/2018
18E1380-02	ETPH-01	Soil	05/30/2018	05/31/2018
18E1380-03	ETPH-02	Soil	05/30/2018	05/31/2018

## **General Notes for York Project (SDG) No.: 18E1380**

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:**



Benjamin Gulizia  
Laboratory Director

**Date:** 06/08/2018







### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18E1380	SC18035	Soil	May 30, 2018 3:00 pm	05/31/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/06/2018 07:30	06/06/2018 15:38	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP	06/06/2018 07:30	06/06/2018 15:38	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
95-63-6	<b>1,2,4-Trimethylbenzene</b>	<b>290000</b>		ug/kg dry	18000	36000	5000	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 16:34	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
108-67-8	<b>1,3,5-Trimethylbenzene</b>	<b>82000</b>		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	36000	72000	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
78-93-3	2-Butanone	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
591-78-6	2-Hexanone	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS





### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1380

SC18035

Soil

May 30, 2018 3:00 pm

05/31/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
67-64-1	Acetone	ND		ug/kg dry	3600	7200	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
107-02-8	Acrolein	ND		ug/kg dry	3600	7200	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
71-43-2	Benzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-25-2	Bromoform	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
74-83-9	Bromomethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-00-3	Chloroethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
67-66-3	Chloroform	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
74-87-3	Chloromethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
110-82-7	Cyclohexane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
100-41-4	<b>Ethyl Benzene</b>	<b>42000</b>		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1380

SC18035

Soil

May 30, 2018 3:00 pm

05/31/2018

**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
98-82-8	Isopropylbenzene	8300		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
79-20-9	Methyl acetate	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
108-87-2	Methylcyclohexane	17000		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-09-2	Methylene chloride	ND		ug/kg dry	3600	7200	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
104-51-8	n-Butylbenzene	22000		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
103-65-1	n-Propylbenzene	31000		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
95-47-6	o-Xylene	43000		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
179601-23-1	p- & m- Xylenes	240000		ug/kg dry	3600	7200	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
99-87-6	p-Isopropyltoluene	3600	J	ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
135-98-8	sec-Butylbenzene	5500		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
100-42-5	Styrene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
108-88-3	Toluene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1800	3600	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	06/06/2018 07:30	06/06/2018 15:38	SS
1330-20-7	Xylenes, Total	280000		ug/kg dry	5400	11000	500	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/06/2018 07:30	06/06/2018 15:38	SS

Surrogate Recoveries

Result

Acceptance Range



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**Volatile Organics, 8260 - Comprehensive**

**Log-in Notes:**

**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
17060-07-0	Surrogate: 1,2-Dichloroethane-d4	79.9 %			77-125						
2037-26-5	Surrogate: Toluene-d8	101 %			85-120						
460-00-4	Surrogate: p-Bromofluorobenzene	102 %			76-130						

**Volatile Organics, Tentatively Identified Cmpds.**

**Log-in Notes:**

**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
NA	dihydro methyl indene isomer	83000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	Ethyl Dimethyl Benzene isomer	63000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	ethyl methyl Benzene isomers	430000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	Methyl Hexane isomer	47000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	Tetramethyl Benzene isomer	64000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	Trimethyl Benzene isomer	110000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	Unknown alkane isomers	330000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS
NA	unknown alkyl subst. Benzene isomers	210000	J	ug/kg dry			500	EPA 8260C Certifications:	06/06/2018 07:30	06/06/2018 15:38	SS

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	257		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
91-57-6	<b>2-Methylnaphthalene</b>	<b>12300</b>		ug/kg dry	360	717	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 12:31	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-02-7	4-Nitrophenol	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
83-32-9	Acenaphthene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
98-86-2	Acetophenone	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
62-53-3	Aniline	ND		ug/kg dry	287	575	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
120-12-7	Anthracene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
1912-24-9	Atrazine	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
92-87-5	Benzidine	ND		ug/kg dry	287	575	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
205-99-2	<b>Benzo(b)fluoranthene</b>	<b>80.3</b>	J	ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
65-85-0	Benzoic acid	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
105-60-2	Caprolactam	ND		ug/kg dry	143	287	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
86-74-8	Carbazole	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18E1380

SC18035

Soil

May 30, 2018 3:00 pm

05/31/2018

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
218-01-9	Chrysene	87.2	J	ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
206-44-0	Fluoranthene	128	J	ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
86-73-7	Fluorene	170		ug/kg dry	71.9	143	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
78-59-1	Isophorone	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
91-20-3	Naphthalene	7170		ug/kg dry	360	717	10	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 12:31	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
85-01-8	Phenanthrene	240		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH
108-95-2	Phenol	ND		ug/kg dry	71.9	143	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/04/2018 06:58	06/08/2018 13:01	KH





### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

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18E1380

SC18035

Soil

May 30, 2018 3:00 pm

05/31/2018

**Semi-Volatiles, 8270 - Comprehensive**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	<b>Pyrene</b>	<b>133</b>	J	ug/kg dry	71.9	143	2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP		
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>								
367-12-4	Surrogate: 2-Fluorophenol	64.1 %	20-108								
4165-62-2	Surrogate: Phenol-d5	80.6 %	23-114								
4165-60-0	Surrogate: Nitrobenzene-d5	82.4 %	22-108								
321-60-8	Surrogate: 2-Fluorobiphenyl	68.7 %	21-113								
118-79-6	Surrogate: 2,4,6-Tribromophenol	103 %	19-110								
1718-51-0	Surrogate: Terphenyl-d14	58.2 %	24-116								

**Semi-Volatiles, Tentatively Identified Cmpds.**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
NA	<b>dihydro dimethyl indene isomer</b>	<b>3210</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>dimethyl benzene isomer</b>	<b>7340</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>dimethyl Naphthalene isomer</b>	<b>5960</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>dimethylphenyl Ethanone Isomer</b>	<b>2180</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>Ethenyl dimethyl benzene isomer</b>	<b>5850</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>Ethyl Dimethyl Benzene isomer</b>	<b>14100</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>Ethyl Methyl Benzene isomer</b>	<b>15000</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>ethyl methyl heptane isomer</b>	<b>4130</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>indane isomer</b>	<b>3560</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>methyl butenyl benzene isomer</b>	<b>2870</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>methyl methylethyl benzene isomer</b>	<b>16900</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>methyl propenyl benzene isomer</b>	<b>7910</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>methyl propyl benzene isomer</b>	<b>16100</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		
NA	<b>Unknown aliphatic hydrocarbon</b>	<b>2640</b>	J	ug/kg dry			2	EPA 8270D	06/04/2018 06:58	06/08/2018 13:01	KH
									Certifications:		





### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

18E1380

SC18035

Soil

May 30, 2018 3:00 pm

05/31/2018

**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
72-55-9	4,4'-DDE	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
50-29-3	4,4'-DDT	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
309-00-2	Aldrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
319-84-6	alpha-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
5103-71-9	alpha-Chlordane	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	06/01/2018 13:59	06/04/2018 18:01	SA
319-85-7	beta-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
57-74-9	Chlordane, total	ND		ug/kg dry	37.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
319-86-8	delta-BHC	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
60-57-1	Dieldrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
959-98-8	Endosulfan I	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
33213-65-9	Endosulfan II	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854	06/01/2018 13:59	06/04/2018 18:01	SA
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
72-20-8	Endrin	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
7421-93-4	Endrin aldehyde	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
53494-70-5	Endrin ketone	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
5566-34-7	gamma-Chlordane	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: NELAC-NY10854,NJDEP	06/01/2018 13:59	06/04/2018 18:01	SA
76-44-8	Heptachlor	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	1.90	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
72-43-5	Methoxychlor	ND		ug/kg dry	9.48	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA
8001-35-2	Toxaphene	ND		ug/kg dry	95.9	5	EPA 8081B Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 18:01	SA

**Surrogate Recoveries**

**Result**

**Acceptance Range**

2051-24-3 Surrogate: Decachlorobiphenyl

75.6 %

30-150



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**Pesticides, 8081 target list**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
877-09-8	Surrogate: Tetrachloro-m-xylene	63.9 %			30-150					

**Polychlorinated Biphenyls (PCB)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/01/2018 13:59	06/04/2018 23:10	LAB
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0191	1	EPA 8082A Certifications:	06/01/2018 13:59	06/04/2018 23:10	LAB

**Surrogate Recoveries**

**Result**

**Acceptance Range**

877-09-8	Surrogate: Tetrachloro-m-xylene	58.4 %	30-140
2051-24-3	Surrogate: Decachlorobiphenyl	62.2 %	30-140

**Herbicides, Target List**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3550B/8151A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-76-5	2,4,5-T	ND		ug/kg dry	23.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/05/2018 04:18	06/05/2018 13:05	lab
93-72-1	2,4,5-TP (Silvex)	ND		ug/kg dry	23.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/05/2018 04:18	06/05/2018 13:05	lab
94-75-7	2,4-D	ND		ug/kg dry	23.0	1	EPA 8151A Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/05/2018 04:18	06/05/2018 13:05	lab

**Surrogate Recoveries**

**Result**

**Acceptance Range**

19719-28-9	Surrogate: 2,4-Dichlorophenylacetic acid (D 149 %		30-150
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**Metals, Target Analyte**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	<b>Aluminum</b>	<b>13200</b>		mg/kg dry	5.76	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-36-0	Antimony	ND		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-38-2	Arsenic	ND		mg/kg dry	1.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-39-3	<b>Barium</b>	<b>62.4</b>		mg/kg dry	1.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-41-7	<b>Beryllium</b>	<b>0.459</b>		mg/kg dry	0.115	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.346	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-70-2	<b>Calcium</b>	<b>7540</b>		mg/kg dry	5.76	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-47-3	<b>Chromium</b>	<b>15.5</b>		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-48-4	<b>Cobalt</b>	<b>8.81</b>		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-50-8	<b>Copper</b>	<b>13.3</b>		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7439-89-6	<b>Iron</b>	<b>23000</b>		mg/kg dry	2.31	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7439-92-1	<b>Lead</b>	<b>42.3</b>		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7439-95-4	<b>Magnesium</b>	<b>4290</b>		mg/kg dry	5.76	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7439-96-5	<b>Manganese</b>	<b>704</b>		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-02-0	<b>Nickel</b>	<b>19.2</b>	B	mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-09-7	<b>Potassium</b>	<b>962</b>		mg/kg dry	5.76	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7782-49-2	Selenium	ND		mg/kg dry	1.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-22-4	Silver	ND		mg/kg dry	0.576	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-23-5	<b>Sodium</b>	<b>114</b>		mg/kg dry	11.5	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-28-0	Thallium	ND		mg/kg dry	1.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-62-2	<b>Vanadium</b>	<b>19.4</b>		mg/kg dry	1.15	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML
7440-66-6	<b>Zinc</b>	<b>75.2</b>		mg/kg dry	1.73	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/01/2018 09:58	06/01/2018 21:07	KML

**Metals, TCLP RCRA**

**Log-in Notes:**

**Sample Notes:**



### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	0.189	B	mg/L	0.100	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML
7440-39-3	Barium	0.475		mg/L	0.250	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML
7782-49-2	Selenium	ND		mg/L	0.250	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML

**Nickel, TCLP by EPA 6010**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-02-0	Nickel	0.484	B	mg/L	0.125	1	EPA 6010C/1311 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/06/2018 12:27	06/06/2018 14:10	KML

**Mercury by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	0.0406		mg/kg dry	0.0346	1	EPA 7473 Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP	06/07/2018 12:49	06/07/2018 16:35	SY

**Mercury TCLP by 7473**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002000	1	EPA 7473/1311 Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854	06/05/2018 13:54	06/05/2018 16:53	SY

**Flashpoint**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Flashpoint	> 200		°F	50.0	1	EPA 1010A Certifications: NELAC-NY10854,NJDEP	06/06/2018 12:21	06/06/2018 15:32	TAJ

**Ignitability**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
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### Sample Information

**Client Sample ID:** WC-01v

**York Sample ID:** 18E1380-01

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**Ignitability**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
* Ignitability		Non-Ignit.		-	1	1	EPA 1030P Certifications:	06/02/2018 05:33	06/02/2018 05:42	AA

**Paint Filter Test**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
Paint Filter Test		No Free Liquid		-	0	1	EPA 9095B Certifications: NELAC-NY10854,NJDEP	06/06/2018 15:10	06/06/2018 15:35	AA

**Total Solids**

**Log-in Notes:**

**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	86.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/06/2018 16:30	06/06/2018 18:49	TAJ

**Chromium, Hexavalent**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA SW846-3060

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
18540-29-9	Chromium, Hexavalent	ND		mg/kg dry	0.576	1	EPA 7196A Certifications: NJDEP,CTDOH,NELAC-NY10854,PADEP	06/06/2018 09:24	06/06/2018 19:45	TJD

**Corrosivity by SM 4500/EPA 9045D**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	7.70	HT-01	pH units	0.500	1	EPA 9045D Certifications: NELAC-NY10854,CTDOH,PADEP	06/05/2018 09:21	06/06/2018 16:07	TJD

**Cyanide, Total**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation Soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-12-5	Cyanide, total	ND		mg/kg dry	0.576	1	EPA 9014/9010C Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP	06/04/2018 10:36	06/04/2018 16:46	TJM

**Reactivity-Cyanide**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3 Certifications: CTDOH,PADEP	06/06/2018 10:27	06/06/2018 15:48	TJM

**Reactivity-Sulfide**

**Log-in Notes:**

**Sample Notes:**



Sample Information

Client Sample ID: WC-01v

York Sample ID: 18E1380-01

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18E1380, SC18035, Soil, May 30, 2018 3:00 pm, 05/31/2018

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: \* Reactivity - Sulfide, 72.0, mg/kg, 15.0, 1, EPA SW-846 Ch.7.3.4, 06/06/2018 10:28, 06/06/2018 16:44, TJM

TCLP Extraction for METALS EPA 1311

Log-in Notes:

Sample Notes: EXT-Temp

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: TCLP Extraction, Completed, N/A, 1.00, 1, EPA 1311, 06/04/2018 16:20, 06/05/2018 12:10, TAJ

Temperature

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: \* Temperature, 22.9, HT-01 °C, 1.00, 1, EPA 170.1, 06/05/2018 09:21, 06/06/2018 16:07, TJD

Analyzed by: Phoenix Environmental Laboratories, Inc. S

Boron by EPA 6010 (SUB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: 7440-42-8 Boron, 3.6, mg/kg, 1.5, 1, SW6010C, 06/01/2018 00:00, 06/02/2018 00:00, PHO

Sample Information

Client Sample ID: ETPH-01

York Sample ID: 18E1380-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 18E1380, SC18035, Soil, May 30, 2018 3:00 pm, 05/31/2018

NJDEP EPH (Cat. 2 Non-Fractionated)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

Table with 11 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Row: \* Total EPH, ND, mg/kg dry, 55.9, 1, NJDEP EPH Rev 3.0, 06/05/2018 04:06, 06/06/2018 01:15, LAB

Table with 4 columns: Surrogate Recoveries, Result, Acceptance Range. Rows: 3386-33-2 Surrogate: 1-Chlorooctadecane, 89.6%, 40-140; 84-15-1 Surrogate: o-Terphenyl, 94.2%, 40-140



**Sample Information**

**Client Sample ID:** ETPH-01

**York Sample ID:** 18E1380-02

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**Total Solids**

**Log-in Notes:**

**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	89.4		%	0.100	1	SM 2540G	06/06/2018 09:15	06/06/2018 16:13	LAB
							Certifications:	CTDOH		

**Sample Information**

**Client Sample ID:** ETPH-02

**York Sample ID:** 18E1380-03

<u>York Project (SDG) No.</u> 18E1380	<u>Client Project ID</u> SC18035	<u>Matrix</u> Soil	<u>Collection Date/Time</u> May 30, 2018 3:00 pm	<u>Date Received</u> 05/31/2018
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**NJDEP EPH (Cat. 2 Non-Fractionated)**

**Log-in Notes:**

**Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Total EPH	74.0		mg/kg dry	54.9	1	NJDEP EPH Rev 3.0	06/05/2018 04:06	06/06/2018 01:44	LAB
							Certifications:	NJDEP		
<b>Surrogate Recoveries</b>		<b>Result</b>	<b>Acceptance Range</b>							
3386-33-2	Surrogate: 1-Chlorooctadecane	94.1 %	40-140							
84-15-1	Surrogate: o-Terphenyl	100 %	40-140							

**Total Solids**

**Log-in Notes:**

**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	89.3		%	0.100	1	SM 2540G	06/06/2018 09:15	06/06/2018 16:13	LAB
							Certifications:	CTDOH		





## Analytical Batch Summary

**Batch ID:** 6/2/2018

**Preparation Method:** EPA 3050B

**Prepared By:**

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/01/18

**Batch ID:** BF80027

**Preparation Method:** EPA 3050B

**Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/01/18
BF80027-BLK1	Blank	06/01/18
BF80027-SRM1	Reference	06/01/18

**Batch ID:** BF80056

**Preparation Method:** EPA 3550C

**Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/01/18
18E1380-01	WC-01v	06/01/18
BF80056-BLK1	Blank	06/01/18
BF80056-BLK2	Blank	06/01/18
BF80056-BS1	LCS	06/01/18
BF80056-BS2	LCS	06/01/18

**Batch ID:** BF80076

**Preparation Method:** Analysis Preparation

**Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/02/18

**Batch ID:** BF80087

**Preparation Method:** EPA 3545A

**Prepared By:** SGM

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/04/18
18E1380-01	WC-01v	06/04/18
18E1380-01RE1	WC-01v	06/04/18
BF80087-BLK1	Blank	06/04/18
BF80087-BLK1	Blank	06/04/18
BF80087-BS1	LCS	06/04/18

**Batch ID:** BF80110

**Preparation Method:** Analysis Preparation Soil

**Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/04/18
BF80110-BLK1	Blank	06/04/18
BF80110-SRM1	Reference	06/04/18



**Batch ID:** BF80149      **Preparation Method:** EPA SW 846-1311 TCLP ext. for meta      **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/04/18
BF80149-BLK1	Blank	06/04/18

**Batch ID:** BF80164      **Preparation Method:** EPA 3545A      **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-02	ETPH-01	06/05/18
18E1380-03	ETPH-02	06/05/18
BF80164-BLK1	Blank	06/05/18
BF80164-BS1	LCS	06/05/18
BF80164-BSD1	LCS Dup	06/05/18

**Batch ID:** BF80165      **Preparation Method:** EPA 3550B/8151A      **Prepared By:** CM

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/05/18
BF80165-BLK1	Blank	06/05/18
BF80165-BS1	LCS	06/05/18

**Batch ID:** BF80181      **Preparation Method:** EPA 7473 water      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/05/18
BF80181-BLK1	Blank	06/05/18
BF80181-LBK1	Leach Fluid Blank	06/05/18
BF80181-SRM1	Reference	06/05/18

**Batch ID:** BF80184      **Preparation Method:** Analysis Preparation      **Prepared By:** TJD

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/05/18

**Batch ID:** BF80250      **Preparation Method:** EPA 5035A      **Prepared By:** TAB

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18
18E1380-01RE1	WC-01v	06/06/18
BF80250-BLK1	Blank	06/06/18
BF80250-BLK2	Blank	06/06/18
BF80250-BS1	LCS	06/06/18
BF80250-BSD1	LCS Dup	06/06/18

**Batch ID:** BF80267      **Preparation Method:** % Solids Prep      **Prepared By:** TAJ



YORK Sample ID	Client Sample ID	Preparation Date
18E1380-02	ETPH-01	06/06/18
18E1380-03	ETPH-02	06/06/18

**Batch ID:** BF80269      **Preparation Method:** EPA SW846-3060      **Prepared By:** TJD

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18
BF80269-BLK1	Blank	06/06/18
BF80269-SRM1	Reference	06/06/18

**Batch ID:** BF80284      **Preparation Method:** Analysis Preparation      **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18
BF80284-BLK1	Blank	06/06/18

**Batch ID:** BF80285      **Preparation Method:** Analysis Preparation      **Prepared By:** TJM

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18
BF80285-BLK1	Blank	06/06/18

**Batch ID:** BF80288      **Preparation Method:** EPA 3015A/1311      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18
BF80288-BLK1	Blank	06/06/18
BF80288-BS1	LCS	06/06/18
BF80288-LBK1	Leach Fluid Blank	06/06/18

**Batch ID:** BF80294      **Preparation Method:** Analysis Preparation      **Prepared By:** TAJ

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18
BF80294-SRM1	Reference	06/06/18

**Batch ID:** BF80302      **Preparation Method:** Analysis Preparation      **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/06/18

**Batch ID:** BF80314      **Preparation Method:** % Solids Prep      **Prepared By:** LAB

YORK Sample ID	Client Sample ID	Preparation Date
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18E1380-01 WC-01v 06/06/18  
BF80314-DUP1 Duplicate 06/06/18

**Batch ID:** BF80379      **Preparation Method:** EPA 7473 soil      **Prepared By:** SY

YORK Sample ID	Client Sample ID	Preparation Date
18E1380-01	WC-01v	06/07/18
BF80379-BLK1	Blank	06/07/18
BF80379-SRM1	Reference	06/07/18



**Volatile Organic Compounds by GC/MS - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80250 - EPA 5035A**

**Blank (BF80250-BLK1)**

Prepared & Analyzed: 06/06/2018

1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
Tentatively Identified Compounds	0.0		"								
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	"								
1,2,3-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	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	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	"								
Cyclohexane	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 acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF80250 - EPA 5035A**

**Blank (BF80250-BLK1)**

Prepared & Analyzed: 06/06/2018

Methylene chloride	ND	10	ug/kg wet								
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-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>41.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>82.0</i>		<i>77-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.1</i>		<i>"</i>	<i>50.0</i>		<i>102</i>		<i>85-120</i>			
<i>Surrogate: p-Bromofluorobenzene</i>	<i>53.9</i>		<i>"</i>	<i>50.0</i>		<i>108</i>		<i>76-130</i>			

**Blank (BF80250-BLK2)**

Prepared & Analyzed: 06/06/2018

1,1,1,2-Tetrachloroethane	ND	500	ug/kg wet								
Tentatively Identified Compounds	0.0		"								
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	"								
1,2,3-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	"								
1,4-Dichlorobenzene	ND	500	"								
1,4-Dioxane	ND	10000	"								
2-Butanone	ND	500	"								
2-Hexanone	ND	500	"								
4-Methyl-2-pentanone	ND	500	"								
Acetone	ND	1000	"								
Acrolein	ND	1000	"								
Acrylonitrile	ND	500	"								
Benzene	ND	500	"								



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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	Flag
		Limit								Limit	

**Batch BF80250 - EPA 5035A**

**Blank (BF80250-BLK2)**

Prepared & Analyzed: 06/06/2018

Bromochloromethane	ND	500	ug/kg wet								
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	"								
Cyclohexane	ND	500	"								
Dibromochloromethane	ND	500	"								
Dibromomethane	ND	500	"								
Dichlorodifluoromethane	ND	500	"								
Ethyl Benzene	ND	500	"								
Hexachlorobutadiene	ND	500	"								
Isopropylbenzene	ND	500	"								
Methyl acetate	ND	500	"								
Methyl tert-butyl ether (MTBE)	ND	500	"								
Methylcyclohexane	ND	500	"								
Methylene chloride	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-Butyl alcohol (TBA)	ND	500	"								
tert-Butylbenzene	ND	500	"								
Tetrachloroethylene	ND	500	"								
Toluene	ND	500	"								
trans-1,2-Dichloroethylene	ND	500	"								
trans-1,3-Dichloropropylene	ND	500	"								
Trichloroethylene	ND	500	"								
Trichlorofluoromethane	ND	500	"								
Vinyl Chloride	ND	500	"								
Xylenes, Total	ND	1500	"								
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>39.0</i>		<i>ug/L</i>	<i>50.0</i>		<i>77.9</i>	<i>77-125</i>				
<i>Surrogate: Toluene-d8</i>	<i>50.0</i>		<i>"</i>	<i>50.0</i>		<i>100</i>	<i>85-120</i>				
<i>Surrogate: p-Bromofluorobenzene</i>	<i>53.1</i>		<i>"</i>	<i>50.0</i>		<i>106</i>	<i>76-130</i>				





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

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting		Spike	Source*		%REC	Limits	Flag	RPD	
		Limit	Units		Level	Result				%REC	RPD

**Batch BF80250 - EPA 5035A**

**LCS (BF80250-BS1)**

Prepared & Analyzed: 06/06/2018

1,1,1,2-Tetrachloroethane	47		ug/L	50.0		93.1	75-129				
1,1,1-Trichloroethane	43		"	50.0		85.1	71-137				
1,1,2,2-Tetrachloroethane	50		"	50.0		99.4	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	49		"	50.0		98.2	58-146				
1,1,2-Trichloroethane	47		"	50.0		94.2	83-123				
1,1-Dichloroethane	47		"	50.0		93.6	75-130				
1,1-Dichloroethylene	44		"	50.0		88.2	64-137				
1,2,3-Trichlorobenzene	48		"	50.0		95.2	81-140				
1,2,3-Trichloropropane	46		"	50.0		92.7	81-126				
1,2,4-Trichlorobenzene	49		"	50.0		98.9	80-141				
1,2,4-Trimethylbenzene	46		"	50.0		93.0	84-125				
1,2-Dibromo-3-chloropropane	39		"	50.0		78.4	74-142				
1,2-Dibromoethane	47		"	50.0		94.6	86-123				
1,2-Dichlorobenzene	49		"	50.0		98.2	85-122				
1,2-Dichloroethane	36		"	50.0		71.9	71-133				
1,2-Dichloropropane	47		"	50.0		93.1	81-122				
1,3,5-Trimethylbenzene	46		"	50.0		92.4	82-126				
1,3-Dichlorobenzene	49		"	50.0		97.2	84-124				
1,4-Dichlorobenzene	48		"	50.0		95.7	84-124				
1,4-Dioxane	1100		"	1050		101	10-228				
2-Butanone	43		"	50.0		86.2	58-147				
2-Hexanone	44		"	50.0		87.1	70-139				
4-Methyl-2-pentanone	45		"	50.0		89.9	72-132				
Acetone	34		"	50.0		67.4	36-155				
Acrolein	26		"	50.0		51.6	10-238				
Acrylonitrile	40		"	50.0		79.8	66-141				
Benzene	50		"	50.0		99.9	77-127				
Bromochloromethane	44		"	50.0		87.2	74-129				
Bromodichloromethane	41		"	50.0		81.5	81-124				
Bromoform	47		"	50.0		93.7	80-136				
Bromomethane	44		"	50.0		88.6	32-177				
Carbon disulfide	58		"	50.0		117	10-136				
Carbon tetrachloride	42		"	50.0		83.7	66-143				
Chlorobenzene	49		"	50.0		97.9	86-120				
Chloroethane	47		"	50.0		93.7	51-142				
Chloroform	44		"	50.0		87.9	76-131				
Chloromethane	56		"	50.0		113	49-132				
cis-1,2-Dichloroethylene	49		"	50.0		97.9	74-132				
cis-1,3-Dichloropropylene	46		"	50.0		92.3	81-129				
Cyclohexane	49		"	50.0		98.4	70-130				
Dibromochloromethane	46		"	50.0		91.2	10-200				
Dibromomethane	42		"	50.0		84.9	83-124				
Dichlorodifluoromethane	55		"	50.0		109	28-158				
Ethyl Benzene	48		"	50.0		95.0	84-125				
Hexachlorobutadiene	47		"	50.0		93.6	83-133				
Isopropylbenzene	47		"	50.0		94.0	81-127				
Methyl acetate	49		"	50.0		98.8	41-143				
Methyl tert-butyl ether (MTBE)	47		"	50.0		94.7	74-131				
Methylcyclohexane	50		"	50.0		99.2	70-130				
Methylene chloride	44		"	50.0		87.2	57-141				
n-Butylbenzene	46		"	50.0		92.8	80-130				



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	
		Limit	Units						RPD	Limit
<b>Batch BF80250 - EPA 5035A</b>										
<b>LCS (BF80250-BS1)</b>										
						Prepared & Analyzed: 06/06/2018				
n-Propylbenzene	47		ug/L	50.0		93.3	74-136			
o-Xylene	46		"	50.0		92.8	83-123			
p- & m- Xylenes	92		"	100		92.3	82-128			
p-Isopropyltoluene	48		"	50.0		95.9	85-125			
sec-Butylbenzene	50		"	50.0		99.7	83-125			
Styrene	47		"	50.0		93.2	86-126			
tert-Butyl alcohol (TBA)	210		"	250		82.1	70-130			
tert-Butylbenzene	49		"	50.0		97.6	80-127			
Tetrachloroethylene	49		"	50.0		99.0	80-129			
Toluene	49		"	50.0		97.7	85-121			
trans-1,2-Dichloroethylene	44		"	50.0		88.2	72-132			
trans-1,3-Dichloropropylene	42		"	50.0		84.7	78-132			
Trichloroethylene	46		"	50.0		92.0	84-123			
Trichlorofluoromethane	36		"	50.0		72.8	62-140			
Vinyl Chloride	56		"	50.0		111	52-130			
Surrogate: 1,2-Dichloroethane-d4	40.5		"	50.0		81.0	77-125			
Surrogate: Toluene-d8	51.6		"	50.0		103	85-120			
Surrogate: p-Bromofluorobenzene	50.8		"	50.0		102	76-130			
<b>LCS Dup (BF80250-BSD1)</b>										
						Prepared & Analyzed: 06/06/2018				
1,1,1,2-Tetrachloroethane	45		ug/L	50.0		89.8	75-129		3.67	30
1,1,1-Trichloroethane	42		"	50.0		83.1	71-137		2.40	30
1,1,2,2-Tetrachloroethane	47		"	50.0		94.6	79-129		4.93	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	48		"	50.0		97.0	58-146		1.23	30
1,1,2-Trichloroethane	44		"	50.0		87.7	83-123		7.14	30
1,1-Dichloroethane	47		"	50.0		93.3	75-130		0.342	30
1,1-Dichloroethylene	43		"	50.0		85.6	64-137		3.04	30
1,2,3-Trichlorobenzene	50		"	50.0		99.2	81-140		4.12	30
1,2,3-Trichloropropane	41		"	50.0		82.5	81-126		11.6	30
1,2,4-Trichlorobenzene	50		"	50.0		99.3	80-141		0.444	30
1,2,4-Trimethylbenzene	47		"	50.0		94.1	84-125		1.24	30
1,2-Dibromo-3-chloropropane	36		"	50.0		72.5	74-142	Low Bias	7.79	30
1,2-Dibromoethane	44		"	50.0		88.8	86-123		6.30	30
1,2-Dichlorobenzene	49		"	50.0		98.8	85-122		0.589	30
1,2-Dichloroethane	34		"	50.0		68.4	71-133	Low Bias	4.90	30
1,2-Dichloropropane	44		"	50.0		88.6	81-122		4.91	30
1,3,5-Trimethylbenzene	47		"	50.0		94.9	82-126		2.61	30
1,3-Dichlorobenzene	48		"	50.0		95.0	84-124		2.33	30
1,4-Dichlorobenzene	48		"	50.0		96.8	84-124		1.14	30
1,4-Dioxane	930		"	1050		88.1	10-228		13.6	30
2-Butanone	38		"	50.0		76.2	58-147		12.3	30
2-Hexanone	38		"	50.0		75.0	70-139		14.9	30
4-Methyl-2-pentanone	41		"	50.0		82.4	72-132		8.75	30
Acetone	29		"	50.0		57.1	36-155		16.5	30
Acrolein	23		"	50.0		46.7	10-238		9.93	30
Acrylonitrile	38		"	50.0		75.6	66-141		5.46	30
Benzene	50		"	50.0		99.1	77-127		0.844	30
Bromochloromethane	45		"	50.0		89.4	74-129		2.45	30
Bromodichloromethane	40		"	50.0		79.7	81-124	Low Bias	2.31	30
Bromoform	44		"	50.0		88.5	80-136		5.77	30
Bromomethane	45		"	50.0		89.4	32-177		0.899	30



Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF80250 - EPA 5035A</b>											
<b>LCS Dup (BF80250-BSD1)</b>											
Prepared & Analyzed: 06/06/2018											
Carbon disulfide	58		ug/L	50.0		116	10-136		0.688	30	
Carbon tetrachloride	41		"	50.0		83.0	66-143		0.864	30	
Chlorobenzene	47		"	50.0		94.6	86-120		3.43	30	
Chloroethane	47		"	50.0		93.8	51-142		0.0213	30	
Chloroform	43		"	50.0		86.7	76-131		1.28	30	
Chloromethane	55		"	50.0		109	49-132		3.46	30	
cis-1,2-Dichloroethylene	48		"	50.0		97.0	74-132		0.924	30	
cis-1,3-Dichloropropylene	44		"	50.0		87.7	81-129		5.09	30	
Cyclohexane	48		"	50.0		95.7	70-130		2.78	30	
Dibromochloromethane	44		"	50.0		88.7	10-200		2.80	30	
Dibromomethane	41		"	50.0		81.9	83-124	Low Bias	3.55	30	
Dichlorodifluoromethane	53		"	50.0		107	28-158		2.43	30	
Ethyl Benzene	47		"	50.0		93.4	84-125		1.72	30	
Hexachlorobutadiene	49		"	50.0		98.9	83-133		5.42	30	
Isopropylbenzene	47		"	50.0		94.5	81-127		0.615	30	
Methyl acetate	40		"	50.0		79.5	41-143		21.7	30	
Methyl tert-butyl ether (MTBE)	45		"	50.0		90.5	74-131		4.53	30	
Methylcyclohexane	49		"	50.0		97.4	70-130		1.85	30	
Methylene chloride	43		"	50.0		86.3	57-141		1.04	30	
n-Butylbenzene	47		"	50.0		93.7	80-130		1.01	30	
n-Propylbenzene	47		"	50.0		93.0	74-136		0.301	30	
o-Xylene	46		"	50.0		91.8	83-123		1.04	30	
p- & m- Xylenes	91		"	100		91.3	82-128		1.03	30	
p-Isopropyltoluene	48		"	50.0		95.3	85-125		0.648	30	
sec-Butylbenzene	51		"	50.0		102	83-125		2.10	30	
Styrene	45		"	50.0		90.3	86-126		3.23	30	
tert-Butyl alcohol (TBA)	170		"	250		69.4	70-130	Low Bias	16.7	30	
tert-Butylbenzene	49		"	50.0		97.5	80-127		0.144	30	
Tetrachloroethylene	48		"	50.0		96.7	80-129		2.37	30	
Toluene	48		"	50.0		96.3	85-121		1.46	30	
trans-1,2-Dichloroethylene	43		"	50.0		86.8	72-132		1.60	30	
trans-1,3-Dichloropropylene	42		"	50.0		83.0	78-132		2.00	30	
Trichloroethylene	46		"	50.0		92.7	84-123		0.758	30	
Trichlorofluoromethane	36		"	50.0		71.0	62-140		2.50	30	
Vinyl Chloride	54		"	50.0		108	52-130		2.88	30	
Surrogate: 1,2-Dichloroethane-d4	39.6		"	50.0		79.2	77-125				
Surrogate: Toluene-d8	50.6		"	50.0		101	85-120				
Surrogate: p-Bromofluorobenzene	50.7		"	50.0		101	76-130				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF80087 - EPA 3545A

Blank (BF80087-BLK1)

Prepared & Analyzed: 06/04/2018

1,1-Biphenyl	ND	62.6	ug/kg wet								
1,2,4,5-Tetrachlorobenzene	ND	125	"								
1,2,4-Trichlorobenzene	ND	62.6	"								
1,2-Dichlorobenzene	ND	62.6	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	62.6	"								
1,3-Dichlorobenzene	ND	62.6	"								
1,4-Dichlorobenzene	ND	62.6	"								
2,3,4,6-Tetrachlorophenol	ND	125	"								
2,4,5-Trichlorophenol	ND	62.6	"								
2,4,6-Trichlorophenol	ND	62.6	"								
2,4-Dichlorophenol	ND	62.6	"								
2,4-Dimethylphenol	ND	62.6	"								
2,4-Dinitrophenol	ND	125	"								
2,4-Dinitrotoluene	ND	62.6	"								
2,6-Dinitrotoluene	ND	62.6	"								
2-Chloronaphthalene	ND	62.6	"								
2-Chlorophenol	ND	62.6	"								
2-Methylnaphthalene	ND	62.6	"								
2-Methylphenol	ND	62.6	"								
2-Nitroaniline	ND	125	"								
2-Nitrophenol	ND	62.6	"								
3- & 4-Methylphenols	ND	62.6	"								
3,3-Dichlorobenzidine	ND	62.6	"								
3-Nitroaniline	ND	125	"								
4,6-Dinitro-2-methylphenol	ND	125	"								
4-Bromophenyl phenyl ether	ND	62.6	"								
4-Chloro-3-methylphenol	ND	62.6	"								
4-Chloroaniline	ND	62.6	"								
4-Chlorophenyl phenyl ether	ND	62.6	"								
4-Nitroaniline	ND	125	"								
4-Nitrophenol	ND	125	"								
Acenaphthene	ND	62.6	"								
Acenaphthylene	ND	62.6	"								
Acetophenone	ND	62.6	"								
Aniline	ND	250	"								
Anthracene	ND	62.6	"								
Atrazine	ND	62.6	"								
Benzaldehyde	ND	62.6	"								
Benzidine	ND	250	"								
Benzo(a)anthracene	ND	62.6	"								
Benzo(a)pyrene	ND	62.6	"								
Benzo(b)fluoranthene	ND	62.6	"								
Benzo(g,h,i)perylene	ND	62.6	"								
Benzo(k)fluoranthene	ND	62.6	"								
Benzoic acid	ND	62.6	"								
Benzyl alcohol	ND	62.6	"								
Benzyl butyl phthalate	ND	62.6	"								
Bis(2-chloroethoxy)methane	ND	62.6	"								
Bis(2-chloroethyl)ether	ND	62.6	"								
Bis(2-chloroisopropyl)ether	ND	62.6	"								
Bis(2-ethylhexyl)phthalate	ND	62.6	"								



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF80087 - EPA 3545A

Blank (BF80087-BLK1)

Prepared & Analyzed: 06/04/2018

Caprolactam	ND	125	ug/kg wet								
Carbazole	ND	62.6	"								
Chrysene	ND	62.6	"								
Dibenzo(a,h)anthracene	ND	62.6	"								
Dibenzofuran	ND	62.6	"								
Diethyl phthalate	ND	62.6	"								
Dimethyl phthalate	ND	62.6	"								
Di-n-butyl phthalate	ND	62.6	"								
Di-n-octyl phthalate	ND	62.6	"								
Fluoranthene	ND	62.6	"								
Fluorene	ND	62.6	"								
Hexachlorobenzene	ND	62.6	"								
Hexachlorobutadiene	ND	62.6	"								
Hexachlorocyclopentadiene	ND	62.6	"								
Hexachloroethane	ND	62.6	"								
Indeno(1,2,3-cd)pyrene	ND	62.6	"								
Isophorone	ND	62.6	"								
Naphthalene	ND	62.6	"								
Nitrobenzene	ND	62.6	"								
N-Nitrosodimethylamine	ND	62.6	"								
N-nitroso-di-n-propylamine	ND	62.6	"								
N-Nitrosodiphenylamine	ND	62.6	"								
Pentachlorophenol	ND	62.6	"								
Phenanthrene	ND	62.6	"								
Phenol	ND	62.6	"								
Pyrene	ND	62.6	"								
<i>Surrogate: 2-Fluorophenol</i>	<i>1900</i>		<i>"</i>	<i>1930</i>		<i>98.3</i>	<i>20-108</i>				
<i>Surrogate: Phenol-d5</i>	<i>1890</i>		<i>"</i>	<i>1900</i>		<i>99.4</i>	<i>23-114</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>1270</i>		<i>"</i>	<i>1250</i>		<i>102</i>	<i>22-108</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1070</i>		<i>"</i>	<i>1240</i>		<i>86.0</i>	<i>21-113</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1910</i>		<i>"</i>	<i>1960</i>		<i>97.5</i>	<i>19-110</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>915</i>		<i>"</i>	<i>1260</i>		<i>72.9</i>	<i>24-116</i>				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF80087 - EPA 3545A</b>											
<b>LCS (BF80087-BS1)</b>										Prepared & Analyzed: 06/04/2018	
1,1-Biphenyl	1190	62.6	ug/kg wet	1250		95.1	22-103				
1,2,4,5-Tetrachlorobenzene	1190	125	"	1250		95.3	10-144				
1,2,4-Trichlorobenzene	1100	62.6	"	1250		88.1	23-130				
1,2-Dichlorobenzene	1080	62.6	"	1250		86.0	26-113				
1,2-Diphenylhydrazine (as Azobenzene)	374	62.6	"	1250		30.0	10-140				
1,3-Dichlorobenzene	1050	62.6	"	1250		83.8	32-113				
1,4-Dichlorobenzene	1030	62.6	"	1250		82.6	28-111				
2,3,4,6-Tetrachlorophenol	3300	125	"	1250		264	30-130	High Bias			
2,4,5-Trichlorophenol	1260	62.6	"	1250		101	14-138				
2,4,6-Trichlorophenol	1320	62.6	"	1250		106	27-122				
2,4-Dichlorophenol	1300	62.6	"	1250		104	23-133				
2,4-Dimethylphenol	1310	62.6	"	1250		105	15-131				
2,4-Dinitrophenol	1620	125	"	1250		130	10-149				
2,4-Dinitrotoluene	1300	62.6	"	1250		104	30-123				
2,6-Dinitrotoluene	1360	62.6	"	1250		109	30-125				
2-Chloronaphthalene	1090	62.6	"	1250		87.6	22-115				
2-Chlorophenol	1230	62.6	"	1250		98.4	25-121				
2-Methylnaphthalene	1270	62.6	"	1250		102	16-127				
2-Methylphenol	1240	62.6	"	1250		99.6	10-146				
2-Nitroaniline	1350	125	"	1250		108	24-126				
2-Nitrophenol	1570	62.6	"	1250		125	17-129				
3- & 4-Methylphenols	1120	62.6	"	1250		89.6	20-109				
3,3-Dichlorobenzidine	1290	62.6	"	1250		103	10-147				
3-Nitroaniline	1160	125	"	1250		92.6	23-123				
4,6-Dinitro-2-methylphenol	1870	125	"	1250		150	10-149	High Bias			
4-Bromophenyl phenyl ether	1130	62.6	"	1250		90.4	30-138				
4-Chloro-3-methylphenol	1300	62.6	"	1250		104	16-138				
4-Chloroaniline	938	62.6	"	1250		75.0	10-117				
4-Chlorophenyl phenyl ether	1100	62.6	"	1250		88.1	18-132				
4-Nitroaniline	1220	125	"	1250		97.4	14-125				
4-Nitrophenol	1530	125	"	1250		122	10-136				
Acenaphthene	1160	62.6	"	1250		92.8	17-124				
Acenaphthylene	1160	62.6	"	1250		92.6	16-124				
Acetophenone	1200	62.6	"	1250		96.2	28-105				
Aniline	934	250	"	1250		74.7	10-111				
Anthracene	1230	62.6	"	1250		98.6	24-124				
Atrazine	1230	62.6	"	1250		98.5	22-120				
Benzaldehyde	1300	62.6	"	1250		104	21-100	High Bias			
Benzo(a)anthracene	1260	62.6	"	1250		101	25-134				
Benzo(a)pyrene	1350	62.6	"	1250		108	29-144				
Benzo(b)fluoranthene	1320	62.6	"	1250		106	20-151				
Benzo(g,h,i)perylene	1340	62.6	"	1250		107	10-153				
Benzo(k)fluoranthene	1280	62.6	"	1250		102	10-148				
Benzoic acid	1200	62.6	"	1270		94.6	10-116				
Benzyl alcohol	1320	62.6	"	1250		106	17-128				
Benzyl butyl phthalate	1330	62.6	"	1250		106	10-132				
Bis(2-chloroethoxy)methane	1240	62.6	"	1250		99.5	10-129				
Bis(2-chloroethyl)ether	1200	62.6	"	1250		96.4	14-125				
Bis(2-chloroisopropyl)ether	1480	62.6	"	1250		119	14-122				
Bis(2-ethylhexyl)phthalate	1370	62.6	"	1250		109	10-141				
Caprolactam	1380	125	"	1250		110	10-123				



Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting		Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD	
		Limit	Units							Limit	Flag

Batch BF80087 - EPA 3545A

LCS (BF80087-BS1)

Prepared & Analyzed: 06/04/2018

Carbazole	1160	62.6	ug/kg wet	1250		92.6	31-120				
Chrysene	1220	62.6	"	1250		97.2	24-116				
Dibenzo(a,h)anthracene	1310	62.6	"	1250		105	17-147				
Dibenzofuran	1150	62.6	"	1250		92.0	23-123				
Diethyl phthalate	1130	62.6	"	1250		90.8	23-122				
Dimethyl phthalate	1130	62.6	"	1250		90.7	28-127				
Di-n-butyl phthalate	1210	62.6	"	1250		97.0	19-123				
Di-n-octyl phthalate	1450	62.6	"	1250		116	10-132				
Fluoranthene	1260	62.6	"	1250		101	36-125				
Fluorene	1190	62.6	"	1250		95.0	16-130				
Hexachlorobenzene	1100	62.6	"	1250		88.4	10-129				
Hexachlorobutadiene	1050	62.6	"	1250		84.2	22-153				
Hexachlorocyclopentadiene	1140	62.6	"	1250		91.0	10-134				
Hexachloroethane	1060	62.6	"	1250		85.1	20-112				
Indeno(1,2,3-cd)pyrene	1310	62.6	"	1250		105	10-155				
Isophorone	1240	62.6	"	1250		99.2	14-131				
Naphthalene	1210	62.6	"	1250		97.1	20-121				
Nitrobenzene	1240	62.6	"	1250		99.5	20-121				
N-Nitrosodimethylamine	1200	62.6	"	1250		95.8	10-124				
N-nitroso-di-n-propylamine	1130	62.6	"	1250		90.6	21-119				
N-Nitrosodiphenylamine	1400	62.6	"	1250		112	10-163				
Pentachlorophenol	1230	62.6	"	1250		98.4	10-143				
Phenanthrene	1240	62.6	"	1250		99.1	24-123				
Phenol	1300	62.6	"	1250		104	15-123				
Pyrene	1190	62.6	"	1250		95.2	24-132				
<i>Surrogate: 2-Fluorophenol</i>	<i>1800</i>		<i>"</i>	<i>1930</i>		<i>93.2</i>	<i>20-108</i>				
<i>Surrogate: Phenol-d5</i>	<i>1820</i>		<i>"</i>	<i>1900</i>		<i>95.5</i>	<i>23-114</i>				
<i>Surrogate: Nitrobenzene-d5</i>	<i>1190</i>		<i>"</i>	<i>1250</i>		<i>95.4</i>	<i>22-108</i>				
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>1010</i>		<i>"</i>	<i>1240</i>		<i>80.9</i>	<i>21-113</i>				
<i>Surrogate: 2,4,6-Tribromophenol</i>	<i>1960</i>		<i>"</i>	<i>1960</i>		<i>100</i>	<i>19-110</i>				
<i>Surrogate: Terphenyl-d14</i>	<i>824</i>		<i>"</i>	<i>1260</i>		<i>65.7</i>	<i>24-116</i>				





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

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BF80087 - EPA 3545A

Blank (BF80087-BLK1)

Prepared & Analyzed: 06/04/2018

Tentatively Identified Compounds                      0.00                      ug/kg wet



**Organochlorine Pesticides by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit			Result					Limit	

**Batch BF80056 - EPA 3550C**

**Blank (BF80056-BLK1)**

Prepared: 06/01/2018 Analyzed: 06/04/2018

4,4'-DDD	ND	0.330	ug/kg wet								
4,4'-DDE	ND	0.330	"								
4,4'-DDT	ND	0.330	"								
Aldrin	ND	0.330	"								
alpha-BHC	ND	0.330	"								
alpha-Chlordane	ND	0.330	"								
beta-BHC	ND	0.330	"								
Chlordane, total	ND	6.60	"								
delta-BHC	ND	0.330	"								
Dieldrin	ND	0.330	"								
Endosulfan I	ND	0.330	"								
Endosulfan II	ND	0.330	"								
Endosulfan sulfate	ND	0.330	"								
Endrin	ND	0.330	"								
Endrin aldehyde	ND	0.330	"								
Endrin ketone	ND	0.330	"								
gamma-BHC (Lindane)	ND	0.330	"								
gamma-Chlordane	ND	0.330	"								
Heptachlor	ND	0.330	"								
Heptachlor epoxide	ND	0.330	"								
Methoxychlor	ND	1.65	"								
Toxaphene	ND	16.7	"								

*Surrogate: Decachlorobiphenyl*

61.6

"

69.7

88.4

30-150

*Surrogate: Tetrachloro-m-xylene*

71.5

"

67.3

106

30-150

**LCS (BF80056-BS1)**

Prepared: 06/01/2018 Analyzed: 06/04/2018

4,4'-DDD	43.6	0.330	ug/kg wet	33.3	131	40-140
4,4'-DDE	45.6	0.330	"	33.3	137	40-140
4,4'-DDT	40.9	0.330	"	33.3	123	40-140
Aldrin	40.2	0.330	"	33.3	121	40-140
alpha-BHC	43.9	0.330	"	33.3	132	40-140
alpha-Chlordane	36.3	0.330	"	33.3	109	40-140
beta-BHC	46.1	0.330	"	33.3	138	40-140
delta-BHC	46.2	0.330	"	33.3	139	40-140
Dieldrin	39.4	0.330	"	33.3	118	40-140
Endosulfan I	37.7	0.330	"	33.3	113	40-140
Endosulfan II	37.4	0.330	"	33.3	112	40-140
Endosulfan sulfate	41.8	0.330	"	33.3	126	40-140
Endrin	36.9	0.330	"	33.3	111	40-140
Endrin aldehyde	44.9	0.330	"	33.3	135	40-140
Endrin ketone	39.4	0.330	"	33.3	118	40-140
gamma-BHC (Lindane)	41.0	0.330	"	33.3	123	40-140
gamma-Chlordane	37.0	0.330	"	33.3	111	40-140
Heptachlor	37.2	0.330	"	33.3	112	40-140
Heptachlor epoxide	37.4	0.330	"	33.3	112	40-140
Methoxychlor	39.0	1.65	"	33.3	117	40-140

*Surrogate: Decachlorobiphenyl*

69.1

"

69.7

99.1

30-150

*Surrogate: Tetrachloro-m-xylene*

74.9

"

67.3

111

30-150



**Organochlorine Pesticides by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			

**Batch Y8F0502 - BE80295**

**Performance Mix (Y8F0502-PEM1)**

Prepared & Analyzed: 06/04/2018

4,4'-DDD	0.00		ng/mL	0.00				0-200					
4,4'-DDE	0.632		"	0.00				0-200					
4,4'-DDT	158		"	200		79.1		0-200					
Endrin	95.6		"	100		95.6		0-200					
Endrin aldehyde	1.12		"	0.00				0-200					
Endrin ketone	3.36		"	0.00				0-200					

**Performance Mix (Y8F0502-PEM2)**

Prepared & Analyzed: 06/04/2018

4,4'-DDD	0.00		ng/mL	0.00				0-200					
4,4'-DDE	0.00		"	0.00				0-200					
4,4'-DDT	226		"	200		113		0-200					
Endrin	124		"	100		124		0-200					
Endrin aldehyde	0.848		"	0.00				0-200					
Endrin ketone	2.78		"	0.00				0-200					



**Polychlorinated Biphenyls by GC/ECD - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

**Batch BF80056 - EPA 3550C**

**Blank (BF80056-BLK2)**

Prepared: 06/01/2018 Analyzed: 06/04/2018

Aroclor 1016	ND	0.0167	mg/kg wet								
Aroclor 1221	ND	0.0167	"								
Aroclor 1232	ND	0.0167	"								
Aroclor 1242	ND	0.0167	"								
Aroclor 1248	ND	0.0167	"								
Aroclor 1254	ND	0.0167	"								
Aroclor 1260	ND	0.0167	"								
Total PCBs	ND	0.0167	"								

<i>Surrogate: Tetrachloro-m-xylene</i>	0.0757		"	0.0673		112	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0693		"	0.0697		99.5	30-140				

**LCS (BF80056-BS2)**

Prepared: 06/01/2018 Analyzed: 06/04/2018

Aroclor 1016	0.369	0.0167	mg/kg wet	0.333		111	40-130				
Aroclor 1260	0.343	0.0167	"	0.333		103	40-130				
<i>Surrogate: Tetrachloro-m-xylene</i>	0.0770		"	0.0673		114	30-140				
<i>Surrogate: Decachlorobiphenyl</i>	0.0680		"	0.0697		97.6	30-140				



**Chlorinated Herbicides by GC/ECD - Quality Control Data**

**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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**Batch BF80165 - EPA 3550B/8151A**

**Blank (BF80165-BLK1)**

Prepared & Analyzed: 06/05/2018

2,4,5-T	ND	20.0	ug/kg wet								
2,4,5-TP (Silvex)	ND	20.0	"								
2,4-D	ND	20.0	"								
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	726		"	500		145	30-150				

**LCS (BF80165-BS1)**

Prepared & Analyzed: 06/05/2018

2,4,5-T	167	20.0	ug/kg wet	160		104	40-140				
2,4,5-TP (Silvex)	150	20.0	"	160		93.8	40-140				
2,4-D	162	20.0	"	160		101	40-140				
<i>Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)</i>	603		"	500		121	30-150				



**Gas Chromatography/Flame Ionization Detector - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	RPD	Limit	Flag
		Limit			Result					Limit			
<b>Batch BF80164 - EPA 3545A</b>													
<b>Blank (BF80164-BLK1)</b>											Prepared & Analyzed: 06/05/2018		
Total EPH	ND	50.0	mg/kg wet										
Surrogate: 1-Chlorooctadecane	7.67		"	10.0		76.7		40-140					
Surrogate: o-Terphenyl	8.37		"	10.0		83.7		40-140					
<b>LCS (BF80164-BS1)</b>											Prepared & Analyzed: 06/05/2018		
Total EPH	281	50.0	mg/kg wet	360		77.9		40-140					
Surrogate: 1-Chlorooctadecane	8.72		"	10.0		87.2		40-140					
Surrogate: o-Terphenyl	9.17		"	10.0		91.7		40-140					
<b>LCS Dup (BF80164-BSD1)</b>											Prepared & Analyzed: 06/05/2018		
Total EPH	280	50.0	mg/kg wet	360		77.8		40-140		0.185		30	
Surrogate: 1-Chlorooctadecane	8.87		"	10.0		88.7		40-140					
Surrogate: o-Terphenyl	9.32		"	10.0		93.2		40-140					



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

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	Flag
		Limit								RPD	

**Batch BF80027 - EPA 3050B**

**Blank (BF80027-BLK1)**

Prepared & Analyzed: 06/01/2018

Aluminum	ND	5.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.500	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	0.636	0.500	"								
Potassium	ND	5.00	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Sodium	ND	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.50	"								

**Reference (BF80027-SRM1)**

Prepared & Analyzed: 06/01/2018

Aluminum	6850	5.00	mg/kg wet	8040	85.2	39.4-160.5
Antimony	117	0.500	"	91.4	129	25.1-275.7
Arsenic	147	1.00	"	146	101	69.9-132.9
Barium	97.1	1.00	"	102	95.2	71.5-136.3
Beryllium	137	0.100	"	134	102	75.4-138.1
Cadmium	64.5	0.300	"	63.2	102	73.3-141.5
Calcium	5940	5.00	"	5930	100	73.7-136.1
Chromium	88.6	0.500	"	89.3	99.2	69.1-143.3
Cobalt	137	0.500	"	119	115	74.6-142
Copper	61.1	0.500	"	60.8	100	72.7-141.6
Iron	12000	2.00	"	14400	83.3	35.6-163.9
Lead	104	0.500	"	98.5	106	70.8-137.1
Magnesium	2330	5.00	"	2580	90.5	63.6-136.1
Manganese	385	0.500	"	370	104	75.7-134.3
Nickel	79.9	0.500	"	66.6	120	70.7-146.3
Potassium	2130	5.00	"	2340	91.1	59.8-140.2
Selenium	117	1.00	"	136	85.8	67.1-136.8
Silver	46.0	0.500	"	48.9	94.0	66.5-139.5
Sodium	344	10.0	"	318	108	40.6-159.8
Thallium	143	1.00	"	138	104	68-136.2
Vanadium	64.5	1.00	"	69.7	92.6	58.9-141.8
Zinc	174	1.50	"	177	98.3	69.5-131.1





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

Analyte	Result	Reporting	Units	Spike	Source*	%REC	%REC	Limits	Flag	RPD	
		Limit								RPD	Limit

**Batch BF80288 - EPA 3015A/1311**

**Blank (BF80288-BLK1)**

Prepared & Analyzed: 06/06/2018

Arsenic	0.010	0.004	mg/L								
Barium	ND	0.011	"								
Cadmium	ND	0.003	"								
Chromium	ND	0.006	"								
Lead	ND	0.006	"								
Nickel	0.0196	0.00556	"								
Selenium	ND	0.011	"								
Silver	ND	0.006	"								

**LCS (BF80288-BS1)**

Prepared & Analyzed: 06/06/2018

Arsenic	1.87		ug/mL	2.00		93.5	80-120				
Barium	2.08		"	2.00		104	80-120				
Cadmium	0.051		"	0.0500		102	80-120				
Chromium	0.208		"	0.200		104	80-120				
Lead	0.510		"	0.500		102	80-120				
Nickel	0.545		"	0.500		109	80-120				
Selenium	1.70		"	2.00		85.2	80-120				
Silver	0.053		"	0.0500		107	80-120				

**Leach Fluid Blank (BF80288-LBK1)**

Prepared & Analyzed: 06/06/2018

Arsenic	0.142	0.100	mg/L								
Barium	ND	0.250	"								
Cadmium	ND	0.075	"								
Chromium	ND	0.125	"								
Lead	ND	0.125	"								
Nickel	0.494	0.125	"								
Selenium	ND	0.250	"								
Silver	ND	0.125	"								



**Mercury by EPA 7000/200 Series Methods - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF80181 - EPA 7473 water</b>											
<b>Blank (BF80181-BLK1)</b> Prepared & Analyzed: 06/05/2018											
Mercury	ND	0.00020000	mg/L								
<b>Leach Fluid Blank (BF80181-LBK1)</b> Prepared & Analyzed: 06/05/2018											
Mercury	0.00017790	0.00020000	mg/L								
<b>Reference (BF80181-SRM1)</b> Prepared & Analyzed: 06/05/2018											
Mercury	0.0080161		mg/L	0.0100		80.2	70-130				
<b>Batch BF80379 - EPA 7473 soil</b>											
<b>Blank (BF80379-BLK1)</b> Prepared & Analyzed: 06/07/2018											
Mercury	ND	0.0300	mg/kg wet								
<b>Reference (BF80379-SRM1)</b> Prepared & Analyzed: 06/07/2018											
Mercury	11.418		mg/kg	13.8		82.7	57.1-143.5				



**Miscellaneous Physical Parameters - Quality Control Data**  
**York Analytical Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF80294 - Analysis Preparation</b>											
<b>Reference (BF80294-SRM1)</b>						Prepared & Analyzed: 06/06/2018					
Flashpoint	> 200		°F	115		98.1	96.5-103.5				
<b>Batch BF80314 - % Solids Prep</b>											
<b>Duplicate (BF80314-DUP1)</b>		*Source sample: 18E1380-01 (WC-01v)				Prepared & Analyzed: 06/06/2018					
% Solids	86.0	0.100	%		86.8				0.825	20	



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
<b>Batch BF80110 - Analysis Preparation Soil</b>											
<b>Blank (BF80110-BLK1)</b>										Prepared & Analyzed: 06/04/2018	
Cyanide, total	ND	0.500	mg/kg wet								
<b>Reference (BF80110-SRM1)</b>										Prepared & Analyzed: 06/04/2018	
Cyanide, total	54.2		ug/mL	41.4		131	34.3-167				
<b>Batch BF80149 - EPA SW 846-1311 TCLP ext. for metals</b>											
<b>Blank (BF80149-BLK1)</b>										Prepared: 06/04/2018 Analyzed: 06/05/2018	
TCLP Extraction	Completed	1.00	N/A								
<b>Batch BF80269 - EPA SW846-3060</b>											
<b>Blank (BF80269-BLK1)</b>										Prepared & Analyzed: 06/06/2018	
Chromium, Hexavalent	ND	0.500	mg/kg wet								
<b>Reference (BF80269-SRM1)</b>										Prepared & Analyzed: 06/06/2018	
Chromium, Hexavalent	43.1		mg/L	76.9		56.0	20.3-212				
<b>Batch BF80284 - Analysis Preparation</b>											
<b>Blank (BF80284-BLK1)</b>										Prepared & Analyzed: 06/06/2018	
Reactivity - Cyanide	ND	0.250	mg/kg								
<b>Batch BF80285 - Analysis Preparation</b>											
<b>Blank (BF80285-BLK1)</b>										Prepared & Analyzed: 06/06/2018	
Reactivity - Sulfide	ND	15.0	mg/kg								



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18E1380-01	WC-01v	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C



## Sample and Data Qualifiers Relating to This Work Order

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.
PF-01	No Free Liquid
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ICV	The recovery for this element in the ICV was outside the 95-105% Recovery criteria for EPA 200.7
M-EBIk	This element was detected in the TCLP or SPLP fluid extraction blank > than the Reporting Limit.
M-CRL	The RL check for this element recovered outside of control limits.
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.
IGN-01	Non-Ignit.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
F-01	> 200
EXT-Temp	Extraction temperture slightly exceeded acceptance range.
EXT-COMP	Completed
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

### Definitions and Other Explanations

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



**High Bias** High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

**Non-Dir.** Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

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

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

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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

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**Corrective Action:** Client deleted request for MS/MSD analysis and revised project reference ID (COC error).





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

# Field Chain-of-Custody Record

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

York Project No. **18E1380**

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: <b>WCD</b>	<b>SAME</b> Gina Wolfman	<b>SAME</b> Brenda	<b>SAME</b> Brenda	Name: _____		SB18035		RUSH-Same Day		Summary Report X	
Address: 24 Davis Avenue	Name: _____	Company: _____	Company: _____	Address: _____		Purchase Order #		RUSH-Next Day		QA Report	
Phone: (845) 452-1658	Address: _____	Address: _____	Address: _____	E-mail: _____		SC18035		RUSH-Two Day		CT RCP	
Contact: Gina Wolfman	E-mail: _____	Matrix Codes		S - soil		Samples from NY		RUSH-Three Day		CT RCP DOA/DUE Pkg	
E-mail: _____	_____	Other - specify (oil, etc.)		WW - wastewater		Standard (5-7 day)		RUSH-Four Day		NY ASP A Package	
<p><i>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.</i></p> <p><i>GINA WOLFMAN</i> Name (printed)</p> <p>Samples Collected/Authorized By (Signature) <i>GINA WOLFMAN</i></p>		Volatiles		Metals		Misc. Org.		Full Lists		NY ASP B Package	
		6240 full TICs 624 Site Spec. STARS list Nassau Co. ETEX Suffolk Co. MTBE Ketones TCL list Oxygenation TAGM list TCLP list CT RCP list 24.2 Arom. only 402.2 Hgalo only NIDEP list App. EX list SFLP or TCLP 8021B list		RCRA8 PP13 list TAL CT15 list TAGM list NIDEP list Total Disolved SFLP or TCLP TCLP Herb Chloridate 608 pest SFLP or TCLP 608 PCB		TPH GRO TPH DRO CT ETPH NY 310-13 TPH 1664 Air TO14A Air TO15 Air STARS Air VPH Air TICs Methane Helium		Phil. Poll. TCL Organics TAL. MISC Phil. TCLP Full App. IX Part 360-Subst Part 360-Subst Part 360-Subst Part 360-Subst NYDEP-Sewer NYDEP-Sewer TAGM		Excel NYSDEC EQUIS NJDEP SRP HazSite EQUIS GIS/KEY (std) YORK Regulatory Comp Excel compared to: NYSDEC UU & RRUSCO OTHER:	
Sample Identification	Date Sampled	Matrix	Analysis Requested (List above includes common analysis)								
WC-01V	5/30/2018	Soil	VOCs + 10 (8260) SVOCs +20 (8270); TAL metals + boron; hex. chormium; TCLP metals + nickel; cyanide; pesticides/PCBs (8081/8082) herbs; RCRA Char. (Ign./Corr./Flash pt/Flam); paint filtr.								
ETPH-01			TPH 1, 4-oz. glass jar								
ETPH-02											
Comments:		Preservation (check all applicable)		Special Instructions		Temperature on Receipt					
VOA kit: 4 X 40ml vials, laboratory supplied		Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/>		2.4°C					
RUN MS/MSD from		Date/Time		Date/Time		Date/Time					
		5-31-18		5-31-18		5-31-18					
		1654		1654		1654					

**ATTACHMENT H**

***Soil Disposal Documentation***







# Profile Detail Report

PRO TECK, INC

317 Main Street - Cornwall/Salisbury Bank

Job ID 149740

5/28/2018 - 6/27/2018

Approval 183070797

Clean Earth of Carteret

Ticket	Date	Truck	Plate	Manifest	Gross	Tare	Net	Units
700000908799	6/26/2018	07VAL252	AT209B	1650332	39.47	13.31	26.16	TONS
700000908817	6/26/2018	07VAL267		1650333	38.78	13.80	24.98	TONS
700000908917	6/26/2018	07VAL266		1650334	39.52	13.74	25.78	TONS
700000908920	6/26/2018	07VAL251	AT207B	1650335	29.13	14.10	15.03	TONS
				Number of Loads	4	Sub Total	91.95	
				Total Number of Loads	4	Total	91.95	

Report Created 6/27/2018 1:58:37 PM

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000908799  
Date Time Scale  
In: 6/26/2018 10:02:25 Scale CE  
Out: 6/26/2018 10:02:33 P.T.

Manifest: 1650332  
Vehicle ID: 07VAL252  
Vehicle Permit:  
Customer: PRO TECK, INC

Lbs Tns  
Gross: 78940 39.47  
Tare: 26620 13.31  
Net: 52320 26.16

Generator: Salisbury Bank Facility Approval#: 183070797  
Job Name: 317 Main Street - Cornwall/Sa  
Gen Address: 5 Bissell Street, PO Box 1868 Job Address: 317 Main Street  
Lakeville, CT 06039 Cornwall, NY 12518

Origin Materials & Services Quantity Unit

Orange, NY Soil Treatment Type II 26.16 Tns  
Contaminate Type: 2 Oil  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil  
Storage Area: Not Applicable  
Comment:

Driver: \_\_\_\_\_ Facility: \_\_\_\_\_  
Gibson, Barry

CLEAN EARTH INTERNAL





Manifest # 1650332

GLOBAL JOB NUMBER: 149740

FACILITY APPROVAL NUMBER: 183070797

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Clean Earth of Greater Washington, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania, Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: SALISBURY BANK AND TRUST, 317 MAIN STREET, CORNWALL, NY 12518, GENERATOR'S PHONE: 860-453-3527, GROSS WEIGHT, TARE WEIGHT, NET WEIGHT

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NON-HAZARDOUS CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: GINA WOLFMAN (WCD), Title: Senior Proj. Mgr., Signature: [Signature], Date and Time: 6/26/18

TRANSPORTER

Company: Valant, Address: 326 Prospect Park Rd, Driver: Eric Miller, Phone Number, Truck # and License Plate: 252 A1209B, SW Haulers Permit #: 896

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: Eric Miller, Date and Time: 6/26/18 7:00

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: Eric Miller, Date and Time: 6/26/18 9:40

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature], Date and Time: 6/26/18

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000908917

	Date	Time	Scale
In:	6/26/2018	10:44:50	Scale CE
Out:	6/26/2018	10:45:02	P.T.

Manifest: 1650334  
Vehicle ID: 07VAL266  
Vehicle Permit:  
Customer: PRO TECK, INC

	Lbs	Tns
Gross:	79040	39.52
Tare:	27480	13.74
Net:	51560	25.78

Generator: Salisbury Bank  
Gen Address: 5 Bissell Street, PO Box 1868  
Lakeville, CT 06039

Facility Approval#: 183070797  
Job Name: 317 Main Street - Cornwall/Sa  
Job Address: 317 Main Street  
Cornwall, NY 12518

Origin	Materials & Services	Quantity	Unit
--------	----------------------	----------	------

Orange, NY	Soil Treatment Type II	25.78	Tns
------------	------------------------	-------	-----

Contaminate Type: 2 Oil

Treatment Type: Bio

Fac Waste Code: Petroleum Contaminated Soil

Storage Area: Not Applicable

Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_

Gibson, Barry

**CLEAN EARTH INTERNAL**





Manifest # 1650334

GLOBAL JOB NUMBER: 149740

FACILITY APPROVAL NUMBER: 183070797

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Clean Earth of Greater Washington, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania, Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: SALISBURY BANK AND TRUST, 317 MAIN STREET, CORNWALL, NY 12518. GROSS WEIGHT, TARE WEIGHT, NET WEIGHT sections with checkboxes for Tons and Yards.

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NON-HAZARDOUS CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: GINA WOLFFMAN, Title: Senior Proj. Mgr., Signature: [Handwritten], Date and Time: 6/26/18

TRANSPORTER

Company: Valant, Phone Number: [Blank], Address: [Blank], Truck # and License Plate: 266 AU267L, Driver: Mark O'Leary, SW Haulers Permit #: [Blank]

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Handwritten], Date and Time: 06/26/2018

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Handwritten], Date and Time: 06/26/2018 10:43 AM

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Handwritten], Date and Time: 6/26/18

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000908817  
Date Time Scale  
In: 6/26/2018 10:08:51 Scale CE  
Out: 6/26/2018 10:09:01 P.T.

Manifest: 1850333  
Vehicle ID: 07VAL267  
Vehicle Permit:  
Customer: PRO TECK, INC

	Lbs	Tns
Gross:	77560	38.78
Tare:	27600	13.80
Net:	49960	24.98

Generator: Salisbury Bank Facility Approval#: 183070797  
Gen Address: 5 Bissell Street, PO Box 1868 Job Name: 317 Main Street - Cornwall/Sa  
Lakeville, CT 06039 Job Address: 317 Main Street  
Cornwall, NY 12518

Origin Materials & Services Quantity Unit

Orange, NY Soil Treatment Type II 24.98 Tns

Contaminate Type: 2 Oil  
Treatment Type: Bio  
Fac Waste Code: Petroleum Contaminated Soil  
Storage Area: Not Applicable  
Comment:

Driver: \_\_\_\_\_

Facility: \_\_\_\_\_  
Gibson, Barry

**CLEAN EARTH INTERNAL**





Manifest # 1650333

GLOBAL JOB NUMBER: 149740

FACILITY APPROVAL NUMBER: 183070797

Please Check One:

- Clean Earth of Carteret, Clean Earth of Maryland, Clean Earth of New Castle, Clean Earth of Greater Washington, Clean Earth of Philadelphia, Clean Earth of North Jersey, Clean Earth of Southeast Pennsylvania, Other

Non-Hazardous Material Manifest

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: SALISBURY BANK AND TRUST, 317 MAIN STREET, CORNWALL, NY 12518, GENERATOR'S PHONE: 860-453-3527, GROSS WEIGHT, TARE WEIGHT, NET WEIGHT

DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION

NON-HAZARDOUS CONTAMINATED SOIL

GENERATOR'S CERTIFICATION/AUTHORIZED AGENT - Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: GINA WOLFMAN, Title: Senior Project Mgr., Signature: [Handwritten], Date and Time: 6/26/18

TRANSPORTER

Company: Valiant, Address: 226 Prospect Point RD, Driver: TJ Cavanagh, Phone Number, Truck # and License Plate: 267 AU 268L, SW Haulers Permit #: 806

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: [Handwritten], Date and Time: 6-26-18

DESTINATION

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: [Handwritten], Date and Time: 6-26-18

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Handwritten], Date and Time: 6/26/18

Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: (732) 541-8909 Fax: (732) 541-8105

Ticket: 700000908920

	Date	Time	Scale
In:	6/26/2018	10:46:22	Scale CE
Out:	6/26/2018	10:46:33	P.T.

Manifest: 1650335  
Vehicle ID: 07VAL251  
Vehicle Permit:  
Customer: PRO TECK, INC

	Lbs	Tns
Gross:	58260	29.13
Tare:	28200	14.10
Net:	30060	15.03

Generator: Salisbury Bank  
Gen Address: 5 Bissell Street, PO Box 1868  
Lakeville, CT 06039

Facility Approval#: 183070797  
Job Name: 317 Main Street - Cornwall/Sa  
Job Address: 317 Main Street  
Cornwall, NY 12518

Origin	Materials & Services	Quantity	Unit
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Orange, NY	Soil Treatment Type II	15.03	Tns
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Contaminate Type: 2 Oil

Treatment Type: Bio

Fac Waste Code: Petroleum Contaminated Soil

Storage Area: Not Applicable

Comment:

Drivers: \_\_\_\_\_

Facility: \_\_\_\_\_  
Gibson, Barry

**CLEAN EARTH INTERNAL**





Manifest # 1650335

GLOBAL JOB NUMBER: 149740 FACILITY APPROVAL NUMBER: 183070797

**Please Check One:**

- Clean Earth of Carteret  
24 Middlesex Avenue  
Carteret, NJ 07008  
Ph: 732-541-8909
- Clean Earth of Maryland  
1469 Oak Ridge Place  
Hagerstown, MD 21740  
Ph: 301-791-6220
- Clean Earth of New Castle  
94 Pyles Lane  
New Castle, DE 19720  
Ph: 302-427-6633
- Clean Earth of Greater Washington  
6250 Dower House Road  
Upper Marlboro, MD 20772  
Ph: 301-599-0939
- Clean Earth of Philadelphia  
3201 S. 61st Street  
Philadelphia, PA 19153  
Ph: 215-724-5520
- Clean Earth of North Jersey  
115 Jacobus Avenue  
Kearny, NJ 07032  
Ph: 973-344-4004
- Clean Earth of Southeast Pennsylvania  
7 Steel Road East  
Morrisville, PA 19067  
Ph: 215-428-1700
- Other \_\_\_\_\_

**Non-Hazardous Material Manifest**

(Type or Print Clearly)

GENERATOR'S NAME & SITE ADDRESS: <u>SALISBURY BANK AND TRUST</u> <u>317 MAIN STREET</u> <u>CORNWALL, NY 12518</u>	GROSS WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards
GENERATOR'S PHONE: <u>860-453-3527</u>	TARE WEIGHT: <input checked="" type="checkbox"/> Tons <input type="checkbox"/> Yards
	NET WEIGHT: <input type="checkbox"/> Tons <input type="checkbox"/> Yards

**DESCRIPTION OF MATERIAL/SAMPLE ID AND LOCATION**

NON-HAZARDOUS CONTAMINATED SOIL

**GENERATOR'S CERTIFICATION/AUTHORIZED AGENT** – Incomplete and/or unsigned manifests will cause the load to be delayed and/or rejected.

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, is not a DOT hazardous substance as defined by 49 CFR Part 172 or any applicable state law, has been fully and accurately described above, classified, packaged and is in proper condition for transportation according to all applicable state and federal regulations.

Name: GINA WOLFMAN (WCD) Title: Senior Proj. Mgr.  
 Signature: [Signature] Date and Time: 6/26/18 7:05 AM

**TRANSPORTER**

Company: Valmet Phone Number: \_\_\_\_\_  
 Address: \_\_\_\_\_ Truck # and License Plate: 01 AT 2076  
 Driver: \_\_\_\_\_ SW Haulers Permit #: \_\_\_\_\_  
(Type or Print Clearly) (applicable state permit #)

I hereby certify that the above named material was picked up at the site listed above.

Driver Signature: \_\_\_\_\_ Date and Time: 6-26-18 9:00

**DESTINATION**

I hereby certify that the above named material was delivered without incident to the facility noted above.

Driver Signature: \_\_\_\_\_ Date and Time: \_\_\_\_\_

I hereby certify that the above named material has been accepted at the above referenced facility.

Authorized Signature: [Signature] Date and Time: \_\_\_\_\_