



TECHNICAL
SERVICES

TANK CLOSURE REPORT

**1124 – 1130 Wyckoff Avenue
Queens, New York**

NYSDEC PBS Number: 2-612992

March 16, 2020

GBTS File: PQ18052

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TANK CLOSURE REPORT

March 16, 2020

GBTS File: PQ18052

Prepared By:

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Prepared For:

**Whitlock Group LLC
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Environmental investigation services were performed by Gallagher Bassett Technical Services (GBTS). The undersigned have reviewed this Tank Closure Report and certify to Whitlock Group LLC that the information provided in this document is accurate as of the date of issuance by this office.



Erick Salazar
Gallagher Bassett Technical Services
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1.0 INTRODUCTION

1.1 Purpose

This Tank Closure Report (Report) summarizes all tank closure services performed by Gallagher Bassett Technical Services (GBTS) and/or designated subcontractors associated with the closure of a 2,000-gallon fuel-oil underground storage tank (UST) at the property located at 1124 – 1130 Wyckoff Avenue, Borough of Queens, Queens County, New York (Site).

This Report describes all fieldwork methodologies for the work conducted by GBTS, includes discussions of the resulting analytical data from collected samples and provides conclusions and recommendations drawn from the fieldwork and analytical data.

1.2 Limitations

This written analysis summarizes tank closure activities conducted on a specified portion of the above-referenced property and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property analyzed as of the respective dates of fieldwork. This Report cannot be held accountable for activities or events resulting in contamination after the dates of fieldwork.

Services summarized in this Report were performed in accordance with generally accepted practices and established New York State Department of Environmental Conservation (NYSDEC) protocols. Unless specifically noted, GBTS's findings and conclusions must be considered not as scientific certainties, but as probabilities based on professional judgement.

1.3 Site Location and Description

The property is a 0.34-acre parcel located on the southern side of Wyckoff Avenue, occupied by a vacant, high one-story commercial building. An asphalt parking/loading area is located at the northern-central portion of the property. A Fieldwork Map indicating specific Site characteristics is provided in Appendix A.

No groundwater was encountered during tank closure activities. A previous Phase II ESA, described in Section 1.4, below, documented groundwater depths at approximately 62 feet below surface grade (bsg); no other data documenting groundwater depth, or site-specific investigation of groundwater direction of flow, is known to exist for the property.

1.4 Previous Environmental Reports

A Phase I Environmental Site Assessment (Phase I ESA) performed on the property by WCD Group, LLC (WCD) in July 2018 identified an on-site, 2,000-gallon fuel-oil UST of unknown integrity, and historical on- and off-site commercial/industrial uses, including a former garage and knitting mill and a former filling station at an eastern adjoining property, as potential sources of contamination.

A Phase II ESA performed by WCD in December 2018 documented the extension of five soil borings and collection of four soil vapor samples and a groundwater sample from the central portion of the on-site building in the northeastern vicinity of the UST. Subsurface soils generally consisted of variable-texture fill materials comprised of unsorted sands with gravel and some building debris. No field evidence of petroleum contamination was encountered in two soil borings extended in the vicinity of the on-site UST and laboratory data documented an absence of volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs) in soil samples. The findings of the Phase II ESA support the conclusion that no significant releases have occurred in the vicinity of the UST.

An excerpt of the Phase II ESA is provided in Appendix B.

2.0 TANK CLOSURE

2.1 Summary of Services

This Report documents tank closure activities, including pumping, cutting, cleaning and filling with concrete. This Report is divided into individual sections that document fieldwork methodology (Section 2.2) and laboratory results (Section 2.3), and present GBTS's conclusions and recommendations (Section 3.0). A map indicating all fieldwork locations and selected Site features is provided in Appendix A and photographs are provided in Appendix C.

2.2 Fieldwork Activities

2.2.1 Site Preparation

GBTS requested a complete utility markout (as required by New York State Department of Labor regulations) and on-site personnel reviewed the markout and underground utility locations prior to the initiation of fieldwork.

A petroleum bulk storage (PBS) facility application and tank modification notice were submitted to the NYSDEC prior to tank closure. NYSDEC authorized closure activities (PBS ID: 2-612992) on January 31, 2019.

A copy of the PBS certificate is provided in Appendix D.

2.2.2 Fieldwork Methodology

General Protocols

Encountered material was screened with a properly calibrated MiniRAE 3000 (Model PGM 7320) photo-ionization detector (PID) for volatile organic vapors. GBTS documented field observations, including any indications of contamination.

GBTS collected samples in general conformance with NYSDEC and NYSDOH fieldwork protocols. All field personnel wore dedicated, disposable gloves during relevant fieldwork activities, and any non-dedicated sampling instruments were decontaminated prior to media collection.

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 GBTS's custody. Samples were transported via courier to York Analytical Laboratories, Inc., a NYSDOH-certified laboratory (ELAP Certification Number 10854) for chemical analyses. Appropriate chain-of-custody procedures were followed.

Fieldwork Activities

Excavation, tank pump-out and cleaning, waste disposal and tank abandonment activities were provided by AARCO Environmental Services Corp. (AARCO). The breaching of the concrete and excavation of surface soils were performed on June 11, 2019. Soils generally consisted of variable texture fill materials comprised of unsorted sands with gravel, brick and concrete. The

top of an approximately 2,000-gallon fuel-oil UST (in a northeast to southwest orientation) was exposed at approximately 3.5 feet below surface grade (bsg). Following tank venting, the top of the tank was cut and AARCO personnel entered the tank to clean the interior with a high-pressure wash. Approximately 145 gallons of oil/water mixture were pumped from the tank.

A visual inspection of the tank interior indicated mild corrosion but no holes or other overt breaches. Once cleaned, eight holes were cut from within the tank shell using an angle grinder in order to obtain confirmatory wall and base samples of surrounding soil. Holes were cut at the northern and southern portions of each of the eastern (UST-01 NE, UST-01 SE) and western (UST-01 NW, UST-01SW) walls as well as the base of the tank (UST-01 BN, UST-01 BS) and one hole was cut through the northern (UST-01 N) and southern (UST-01 S) walls.

Soil samples were collected by AARCO personnel working within the tank, directly from holes cut through the shell, utilizing clean, disposable equipment. Soil collection for VOC analysis was conducted according to USEPA Method 5035 fieldwork protocols, utilizing laboratory sampling kits. Background PID readings within the tank peaked at 36.4 ppm. Headspace PID readings following collection of soil into glass sample jars ranged from 0.3 ppm to 3.1 ppm. No staining or odors were observed at any sampling location.

Following sampling collection the tank-top was sealed and the void above the tank was restored to grade (removal of the tank carcass was anticipated during the excavation phase of future site development activities). Based on a change in site development plans, AARCO returned to the Site on December 24, 2019 and closed the tank in place by filling the interior with 10 cubic yards of concrete.

Copies of daily activity reports from AARCO, as well as a copy of the manifest for residual liquid waste, are included in Appendix E.

2.3 Laboratory Analysis

2.3.1 Standards, Criteria and/or Guidance

Laboratory results for organic compounds detected in soils are compared to NYSDEC Remedial Program Soil Cleanup Objectives (SCOs) for Unrestricted Use (UU) and Restricted-Residential use (RRU) as provided in 6 NYCRR Subpart 375, Tables 375-6.8(a) and 375-6.8(b), and Soil Cleanup Levels (for gasoline and fuel oil contaminated Soils) presented in NYSDEC CP-51 (Soil Cleanup Guidance, October 2010) Tables 2 through 3.

2.3.2 Sample Submission

Soil samples were analyzed for the CP-51 list of VOCs and semi-volatile organic compounds (SVOCs) using USEPA Methods 8260 and 8270, respectively.

2.3.3 Laboratory Results

A summary of the results of the laboratory analyses is presented below. Results are referenced as parts per million (ppm, equivalent to milligrams per kilogram). A data summary table and the laboratory report are provided as Appendices F and G, respectively.

No VOCs were detected in any sample.

Several SVOCs were detected above RRU SCOs in five wall samples, with the highest levels encountered at UST-01 N. Detected concentrations ranged from 10 ppm to 1.9 ppm. Elevated levels of SVOCs (above UU SCOs) were not reported at base samples or at wall sample UST-01 SW.

3.0 CONCLUSIONS AND RECOMMENDATIONS

Gallagher Bassett Technical Services (GBTS) has completed the work summarized in Section 2.0 on portions of the property located at 1124 – 1130 Wyckoff Avenue, Queens, New York. Services included: submission of PBS registration; overseeing closure of a 2,000-gallon underground storage tank (UST); and, the collection and laboratory analysis of eight confirmatory samples to document the integrity of remaining soils.

Based on the services provided and data generated, the following conclusions and recommendations (in **bold**) have been made.

1. GBTS provided oversight services during the abandonment of a 2,000-gallon fuel-oil UST. The tank was drained, cleaned and filled with 10 cubic yards of concrete.

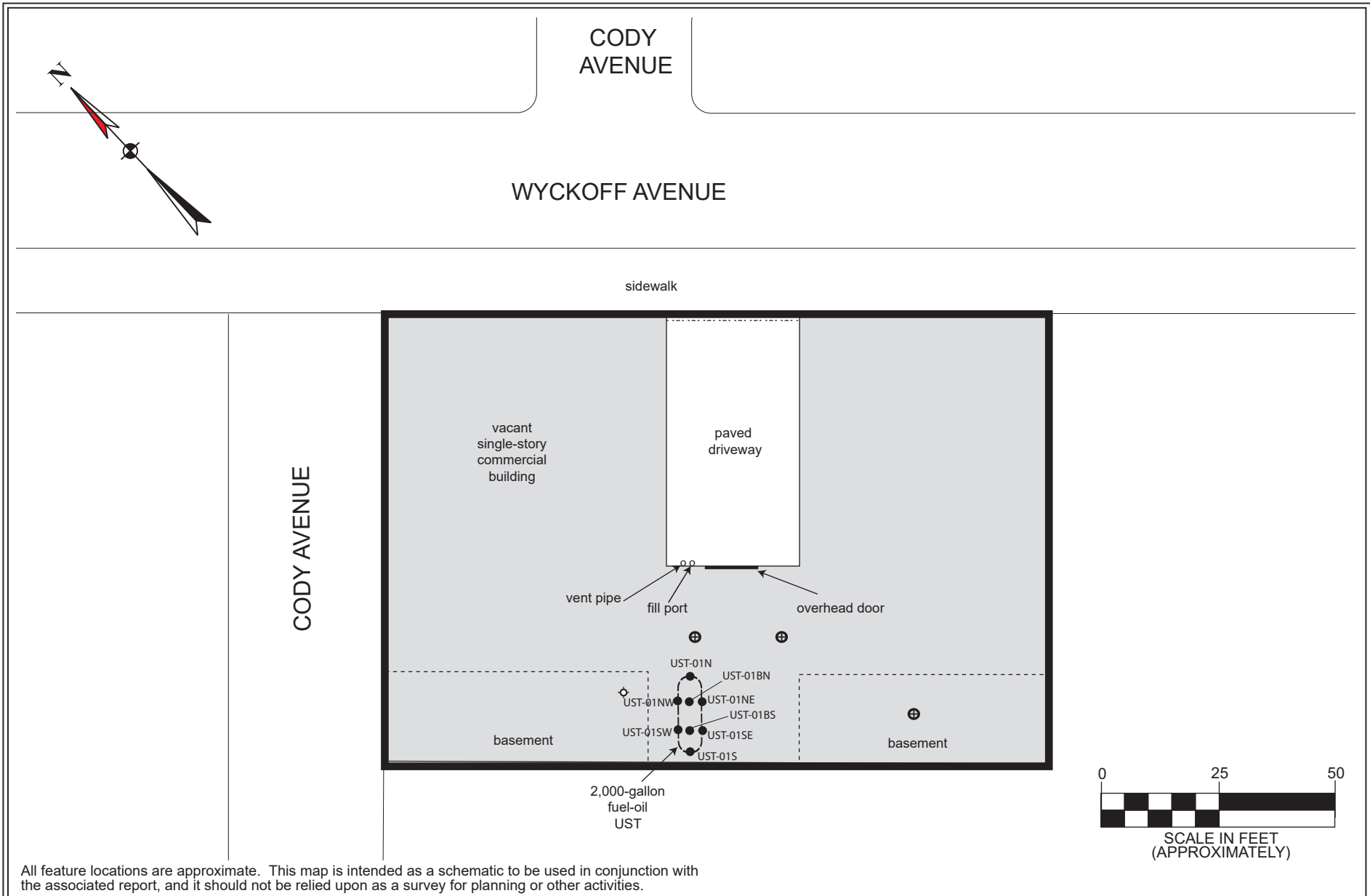
It is recommended that an updated PSB registration, indicating in-place tank closure, be submitted to the NYSDEC

2. A previous subsurface investigation documented an absence of any petroleum impacts in soil borings extended near the former UST, no significant field evidence of petroleum contamination was observed in soil during tank closure, and laboratory analysis of soil documents an absence of volatile organic compounds. Given these findings, elevated levels of semi-volatile organic compounds in soil samples are likely due to the presence of poor-quality urban fill surrounding the tank, or potentially from tank coatings, and GBTS concludes that the former UST has not significantly impacted the subject property.

No further investigation is recommended.

APPENDIX A

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
11-24 Wyckoff Avenue
Borough of Queens, New York

- Legend:
- subject property border
 - chain link fence
 - sump
 - floor drain
 - sample location

File: PQ18052.40

March 2020

Scale as shown

Appendix A

APPENDIX B

Previous Report Excerpt



PHASE II
ENVIRONMENTAL
SITE ASSESSMENT

11-24 Wyckoff Avenue
Borough of Queens
New York City, New York

December 19, 2018

WCD File: PQ18052.21

Environmental & Construction Risk Management

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PHASE II

ENVIRONMENTAL

SITE ASSESSMENT

December 19, 2018

WCD File: PQ18052.21

Prepared By:

**WCD Group
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Prepared For:

**Whitlock Group LLC
475 Kent Avenue
Brooklyn, New York 11249**

The undersigned has reviewed this Phase II Environmental Site Assessment and certifies to Whitlock Group LLC that the information provided in this document is accurate as of the date of issuance by this office.

The undersigned is a Qualified Environmental Professional as defined by 6 NYCRR Part 375-1.2 (ak) and supporting documents. The undersigned possesses sufficient specific education, training, and experience necessary to exercise professional judgment to develop opinions and conclusions regarding the presence of releases or threatened releases to the surface or subsurface of the site or off-site areas, sufficient to meet the objectives and performance factors for the areas of practice identified in NYSDEC guidance document DER-10.

Paul H. Ciminello

December 19, 2018



Qualified Environmental Professional

Date

Signature



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1.0 INTRODUCTION

1.1 Purpose

This Phase II Environmental Site Assessment (Report) documents environmental fieldwork performed by WCD Group (WCD) at the property located at 11-24 Wyckoff Avenue, Borough of Queens, New York City, New York (Site). Investigative and analytical work were performed to address potential environmental liabilities on specified portions of the subject property, which were identified during a previous Phase I investigation (see Section 1.4, below). The specific purpose of this Report is to summarize the work performed by WCD and WCD's subcontractors, and to suggest, if appropriate, further investigative and/or remedial options regarding identified on-site conditions.

This Report describes all fieldwork methodologies for the work conducted by WCD, includes discussions of the resulting analytical data from collected samples and provides conclusions and recommendations drawn from the fieldwork and analytical data.

1.2 Limitations

This written analysis summarizes the site characterization activities conducted on a specified portion of the above-referenced property and is not relevant to other portions of this property or any other property. It is a representation of those portions of the property analyzed as of the respective dates of fieldwork. This Report cannot be held accountable for activities or events resulting in contamination after the dates of fieldwork.

Services summarized in this Report were performed in accordance with generally accepted practices and established New York State Department of Environmental Conservation (NYSDEC) protocols. Unless specifically noted, the findings and conclusions contained herein must be considered not as scientific certainties, but as probabilities based on professional judgement.

1.3 Site Location and Description

The property is a 0.34-acre parcel located on the southern side of Wyckoff Avenue, occupied by a vacant, high one-story commercial building. [Note: For clarity of presentation, Wyckoff Avenue, which has an actual northwest/southeast orientation, is described in this Report as having an east/west orientation, and all other road and property descriptions have been likewise appropriately adjusted for descriptive purposes. All report maps indicate approximate true north.] An asphalt parking/loading area is located at the northern-central portion of the property. A Fieldwork Map indicating specific Site characteristics is provided in Appendix A.

1.4 Previous Environmental Reports

A Phase I Environmental Site Assessment (Phase I ESA) performed on the property by WCD in July 2018 identified an on-site, 2,000-gallon fuel-oil underground storage tank (UST) of unknown integrity, and historical on- and off-site commercial/industrial uses (including former on-site uses as a garage and a knitting mill, and a former filling station at an eastern adjoining property) as potential sources of contamination.

2.0 SUBSURFACE INVESTIGATION

2.1 Summary of Services

WCD extended a total of thirteen soil borings, installed four temporary soil vapor implants, and installed one permanent groundwater monitoring well at the Site and collected soil, soil vapor, and groundwater samples to document the presence or absence of contamination. This Report is divided into individual sections that document fieldwork methodology (Section 2.2) and laboratory results (Section 2.3), and present WCD's conclusions and recommendations (Section 3.0). A map indicating fieldwork locations and Site features is provided in Appendix A.

2.2 Fieldwork Activities

2.2.1 Site Preparation Services

WCD requested a complete utility markout (as required by New York State Department of Labor regulations) and on-site personnel reviewed the markout and underground utility locations prior to the initiation of fieldwork.

2.2.2 Fieldwork Methodology

General Protocols

All encountered material was screened with a properly calibrated RKI Instruments GX-6000 or MiniRAE Lite (Model PGM 7300) photo-ionization detector (PID) for the presence of any volatile organic vapors where appropriate. WCD described all encountered media in field log books, including specific characteristics, the presence of foreign materials, and field and instrument indications of contamination (e.g., staining, odors, PID readings). Soil boring logs are provided in Appendix B.

WCD collected samples in general conformance with NYSDEC and NYSDOH fieldwork protocols. All field personnel wore dedicated, disposable gloves during relevant fieldwork activities, and any non-dedicated sampling instruments were decontaminated prior to media collection.

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 transported 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.

Extension of Soil Borings

Five mechanized soil borings were extended on the Site August 21 and 23, 2018, at the central portion of the building to the east (SB-01) and northwest (SB-02) of the UST, at the eastern portion of the building near the eastern property border (SB-03 and SB-04), and at the western portion of the building (SB-05).

An additional four mechanized and four handheld soil borings were extended on October 22, 2018. The handheld borings were located in the east (HB-01 and HB-02) and west (HB-03 and HB-04) basement areas, and the mechanized borings were located at the central portion of the building near two small floor drains (SB-06 and SB-07) and in the paved area immediately north of the building bay door (SB-08 and SB-09).

All mechanized soil borings were extended by personnel from Core Down Drilling using a track-mounted Geoprobe direct-push corer equipped with disposable acetate sleeves (used to prevent the cross contamination of soil samples). Handheld borings were extended by Core Down Drilling Personnel using a handheld Geoprobe direct push corer equipped with disposable acetate sleeves. Soil was recovered at each boring location at intervals of 2, 4 or 5 feet to a maximum depth of 20 feet below surface grade (bsg).

Subsurface soils encountered at the Site during the extension of the soil borings generally consisted of variable-texture fill materials (unsorted sands with gravel and minimal building debris to depths ranging from 2-6' bsg) overlying likely native, brown sands with trace rock.

No field evidence of contamination was observed at any boring location. Groundwater was not encountered during the extension of the soil borings.

Soil samples were collected directly from the acetate sleeves, utilizing clean, disposable equipment. Soil collection for VOC analysis was conducted according to USEPA Method 5035 fieldwork protocols, utilizing laboratory sampling kits.

Monitoring Well Installation, Development and Sampling

Permanent monitoring well MW-01 was installed at the central portion of the building, immediately inside the bay door, to a depth of 70 feet bsg. The well was constructed of one-inch PVC casing and 0.01-inch slotted PVC well screening (screen interval from 40 to 70 feet below grade). The annular space between the well screen and the borehole was backfilled with clean #1 silica sand and a one-foot thick bentonite seal was poured above the sand. The annular space above the bentonite seal was then grouted with cement. The well casing was cut flush with the floor and equipped with a gripper cap.

Monitoring well development was conducted on November 2, 2018 in order to clear fine-grained material that might have settled around the well screen and to enhance the natural hydraulic connection between the well screen and the surrounding soils. Prior to development, the 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 the well was visually inspected for indications of contamination. Development was conducted using a bladder pump with dedicated plastic tubing, and was considered complete when purged water no longer appeared to be turbid and all parameters (turbidity, conductivity, pH and temperature) stabilized.

The monitoring well was sampled following well development. Water samples were collected following USEPA “Low Stress” (low flow) methodology, after field parameters stabilized during purging. No groundwater samples were filtered prior to submission to the laboratory.

A PID reading of 18.9 ppm was recorded at the top of the casing after removing the protective cap. No field evidence of contamination was observed in purged water from the well. The static groundwater level at MW-01 was measured at 62.33 feet.

Collection of Soil Vapor

Four soil vapor samples (SV-01 through SV-04) were collected from beneath the on-site building on August 21, 2018. SV-01 was collected from the western portion, SV-02 was collected from the eastern portion, SV-03 was collected from beneath the partial basement at the southeastern corner, and SV-04 was collected from the southern-central portion near the UST.

At each location, the slab was breached utilizing a concrete drill and the holes were extended to a depth of 16 inches below the top of the slab. The end of the sample stubbing (0.188-inch inner diameter Teflon) was attached to an “air stone” filter and inserted through the borehole. Clean sand was poured into the void surrounding the air stone. The holes were backfilled leaving approximately two inches of depth between the top of the sand and the ground/slab surface. The remaining space at the top of each hole was sealed off with bentonite to prevent surface air from entering the system. A properly calibrated PID was used to measure volatile organics before purging. PID readings at all four boreholes were less than 1 part per million (ppm, equivalent to milligrams per kilogram). A vacuum pump was utilized to purge the standing air from the tubing. At least three borehole and tubing volumes were purged prior to sample collection at a rate of 0.2 liters per minute. Following purging, the vapor samples were collected over a two-hour period using 6-liter stainless steel, laboratory supplied Summa canisters with two-hour calibrated flow controllers.

2.3 Laboratory Analysis

2.3.1 Standards, Criteria and/or Guidance

Soil

Laboratory results for organic compounds detected in soils are compared to NYSDEC Remedial Program Soil Cleanup Objectives (SCOs) for Unrestricted Use (UU) as provided in 6 NYCRR Subpart 375, Table 375-6.8(a), and (as needed) Soil Cleanup Levels (for gasoline and fuel oil contaminated Soils) presented in NYSDEC CP-51 (Soil Cleanup Guidance, October 2010) Tables 2 through 3.

Vapor

The State of New York does not have any standards, criteria or guidance values (SCG) for volatile chemicals in subsurface vapors; the NYSDOH does, however, utilize several decision matrices for evaluating potential soil vapor intrusion for a limited number of compounds under specific circumstances (see NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New

York [October 2006]). Potentially applicable matrix values and/or relatively high concentrations of VOCs are identified in the report text and in data summary tables, as warranted.

2.3.2 Sample Submission

Submission of samples for laboratory analysis was based on observations made by WCD personnel during the extension of the soil borings, including the presence or absence of elevated PID readings, unusual odors, discoloration, or, any other unusual patterns. Samples were collected from borings SB-01 and SB-02 from the 13-15' interval (beneath the likely invert of the 2,000-gallon UST). Samples from all remaining borings were collected from the bottom 2' interval of the boring.

Soil samples SB-01 through SB-05 were analyzed for volatile organic compounds (VOCs) using USEPA Method 8260, and polycyclic aromatic hydrocarbons (PAHs) using USEPA Method 8270. Samples SB-06 through SB-09, and HB-01 through HB-04 were analyzed for VOCs only (halogenated compounds list).

Soil vapor samples were analyzed for VOCs using USEPA Method TO-15.

2.3.3 Laboratory Results

Results are referenced as parts per million (ppm, equivalent to milligrams per kilogram) for soil, parts per billion (ppb, nominally equivalent to micrograms per liter) for groundwater and micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) for soil vapor. Data summary tables and the laboratory reports are provided as Appendices C and D, respectively.

SOIL

VOCs

Trace-level concentrations of the chlorinated solvent tetrachloroethylene (PCE, peak level of 0.0041 ppm, UU SCO 1.3 ppm) were detected in SB-06 4-5 and SB-07 4-5. Trace-level concentrations of several other chlorinated solvents (1,1,1-trichloroethane and chloroform) were also detected in SB-07 4-5. No other VOCs were detected in any of the soil samples.

PAHs

No PAHs were detected above SCOs. Trace- to low-level concentrations of several PAHs were detected in SB-03 5-7 and SB-04 5-7.

GROUNDWATER

Elevated concentrations of PCE (150 ppb, AWQS 5 ppb), trichloroethylene (TCE; 5.3 ppb, AWQS 5 ppb) and toluene (11 ppb, AWQS 5 ppb) were detected in MW-01. Low-level concentrations of several other solvents (1,1,1,2-tetrachloroethane, 1,1,1-trichloroethane, chloroform and cis-1,2-dichloroethylene) and petroleum compounds (1,2,4-trimethylbenzene and xylenes) were also detected in MW-01 below AWQS.

SOIL VAPOR

Relatively elevated concentrations of PCE were detected in SV-03 (2,700 $\mu\text{g}/\text{m}^3$) and SV-04 (1,700 $\mu\text{g}/\text{m}^3$). A relatively elevated concentration of 1,1,1-trichloroethane (1,1,1-TCA; an industrial solvent) was also detected at SV-04 (620 $\mu\text{g}/\text{m}^3$). Low-level concentrations of numerous other VOCs typically encountered in urban settings were detected in all samples.

3.0 CONCLUSIONS AND RECOMMENDATIONS

This office has completed the services summarized in Section 2.0 on specified portions of the property located at 11-24 Wyckoff Avenue, Borough of Queens, New York City, New York. Services included the extension of thirteen soil borings, installation of four temporary soil vapor implants, installation of one permanent groundwater well, and collection of soil, soil vapor, and groundwater samples to document the presence or absence of contamination resulting from an on-site underground storage tank (UST) of unknown integrity and from historical on- and off-site historical commercial/industrial uses.

Based on the services provided and data generated, the following conclusions and recommendations (in **bold**) have been made.

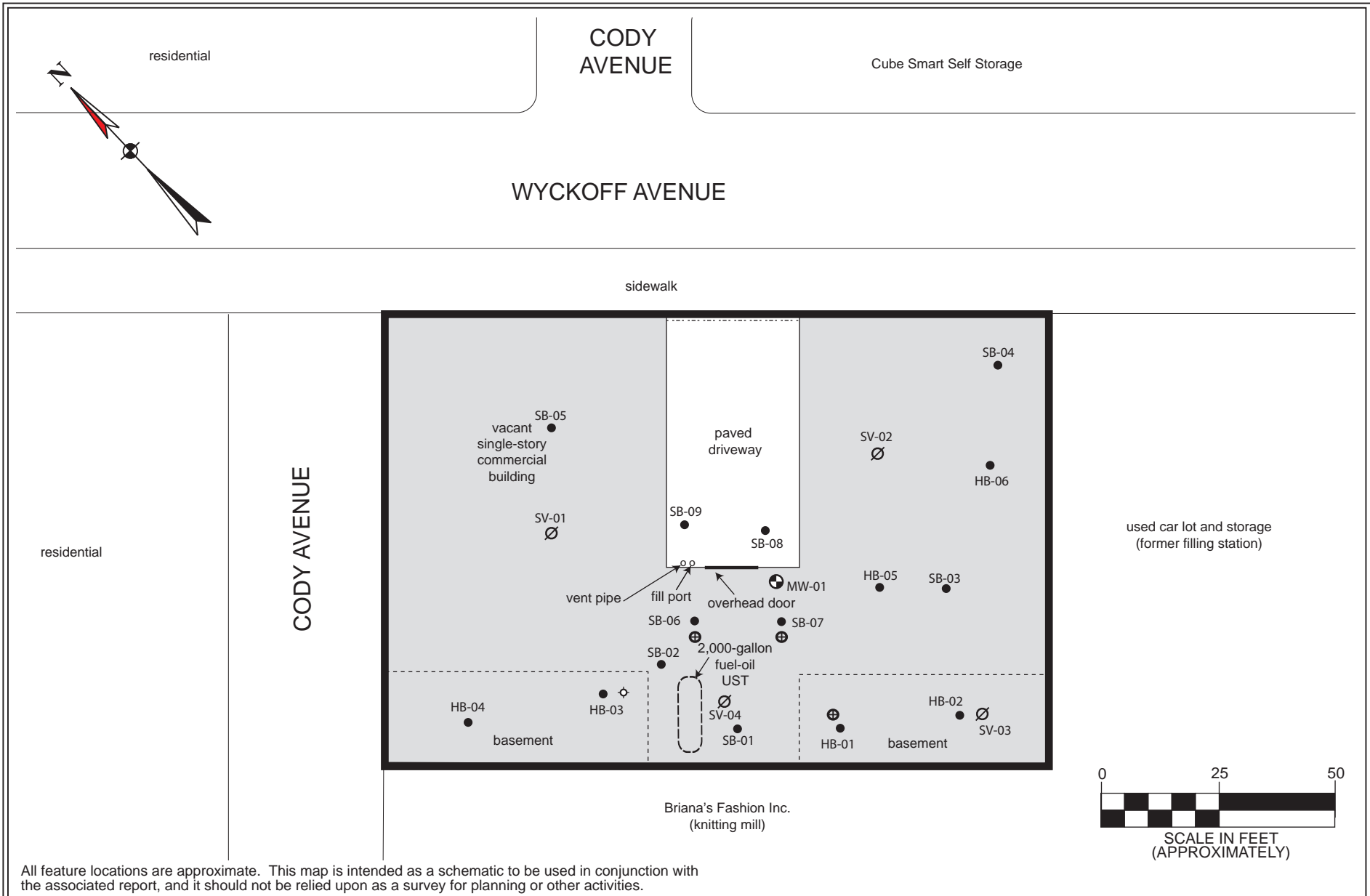
1. No field evidence of petroleum contamination was encountered in two soil borings extended in the vicinity of the on-site 2,000-gallon fuel-oil UST and laboratory data document an absence of volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). These findings support the conclusion that no significant releases have occurred in the vicinity of the UST.

No further investigation is recommended. The UST should be removed from the property or be closed-in-place, in accordance with applicable regulations.

2. Trace-level concentrations of tetrachloroethene (PCE) and 1,1,1-trichloroethane (1,1,1-TCA) were detected in soil samples at the central portion of the building at approximately 5' feet below surface grade, suggesting historical on-site use of these compounds. PCE and 1,1,1-TCA were also detected at relatively elevated concentrations in soil vapor samples beneath the southeastern and southern-central portions of the property, and PCE and trichloroethene (TCE) were detected at elevated levels in on-site groundwater at the central portion of the property. There is insufficient data to determine the source of documented on-site contamination, which may have arisen from on-site releases or may be the result of the migration of off-site contaminated groundwater onto the subject property.

The following actions are recommended:

- **Additional groundwater investigation should be conducted to determine: a) the likely source of solvent contamination; and, b) if contamination from an on-site release is likely to be impacting off-site, downgradient adjoining properties.**
- **In the event of future occupancy of the building, installation of a sub-slab depressurization system (SSDS) is recommended to prevent vapor intrusion into interior spaces.**



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
11-24 Wyckoff Avenue
Borough of Queens, New York

- Legend: **—** subject property border **- - - - -** chain link fence
- ⊕ sump
 - ⊕ floor drain
 - boring locations
 - ∅ soil vapor locations
 - ⊕ monitoring well location

WCD File: PQ18052.21

December 2018

Scale as shown

Appendix A

Table 1: VOCs in Soils
WCD File: PQ18052.21



All data in mg/Kg (ppm) U= Not Detected ≥ indicated value Data above SCOs shown in Bold	Sample ID	SB-01 13-15		SB-02 13-15		SB-03 5-7		SB-04 5-7	
	Sample Date	(2018-08-21)		(2018-08-21)		(2018-08-23)		(2018-08-23)	
	Dilution Factor	1		1		1		1	
VOCs, 8260	UUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,1-Trichloroethane	0.68	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,2-Tetrachloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1,2-Trichloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1-Dichloroethane	0.27	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,3-Trichlorobenzene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,3-Trichloropropane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,4-Trichlorobenzene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2,4-Trimethylbenzene	3.6	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dibromo-3-chloropropane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dibromoethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dichlorobenzene	1.1	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dichloroethane	0.02	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,2-Dichloropropane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,3,5-Trimethylbenzene	8.4	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,3-Dichlorobenzene	2.4	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,4-Dichlorobenzene	1.8	0.0025	U	0.0024	U	0.0033	U	0.0029	U
1,4-Dioxane	0.1	0.05	U	0.049	U	0.065	U	0.057	U
2-Butanone (MEK)	0.12	0.0025	U	0.0024	U	0.0033	U	0.0029	U
2-Hexanone	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
4-Methyl-2-pentanone	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Acetone	0.05	0.005	U	0.0049	U	0.0065	U	0.0057	U
Acrolein	NA	0.005	U	0.0049	U	0.0065	U	0.0057	U
Acrylonitrile	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Benzene	0.06	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromochloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromodichloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromoform	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Bromomethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Carbon disulfide	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Carbon tetrachloride	0.76	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chlorobenzene	1.1	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chloroethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chloroform	0.37	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Chloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0025	U	0.0024	U	0.0033	U	0.0029	U
cis-1,3-Dichloropropylene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Cyclohexane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Dibromochloromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Dibromomethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Dichlorodifluoromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Ethyl Benzene	1	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Hexachlorobutadiene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Isopropylbenzene	2.3	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methyl acetate	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methyl tert-butyl ether (MTBE)	0.93	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methylcyclohexane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Methylene chloride	0.05	0.005	U	0.0049	U	0.0065	U	0.0057	U
n-Butylbenzene	12	0.0025	U	0.0024	U	0.0033	U	0.0029	U
n-Propylbenzene	3.9	0.0025	U	0.0024	U	0.0033	U	0.0029	U
o-Xylene	0.26	0.0025	U	0.0024	U	0.0033	U	0.0029	U
p- & m- Xylenes	0.26	0.005	U	0.0049	U	0.0065	U	0.0057	U
p-Isopropyltoluene	10	0.0025	U	0.0024	U	0.0033	U	0.0029	U
sec-Butylbenzene	11	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Styrene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
tert-Butyl alcohol (TBA)	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
tert-Butylbenzene	5.9	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Tetrachloroethylene (PCE)	1.3	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Toluene	0.7	0.0025	U	0.0024	U	0.0033	U	0.0029	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0025	U	0.0024	U	0.0033	U	0.0029	U
trans-1,3-Dichloropropylene	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Trichloroethylene (TCE)	0.47	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Trichlorofluoromethane	NA	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Vinyl chloride (VC)	0.02	0.0025	U	0.0024	U	0.0033	U	0.0029	U
Xylenes, Total	0.26	0.0076	U	0.0073	U	0.0098	U	0.0086	U

Analyte Detected

Analyte Above UUSCO

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 1: VOCs in Soils

WCD File: PQ18052.21



All data in mg/Kg (ppm) U= Not Detected ≥ indicated value Data above SCOs shown in Bold	Sample ID	SB-05 9.5-11.5	
	Sample Date	(2018-08-23)	
	Dilution Factor	1	
VOCs, 8260	UUSCO	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	0.0026	U
1,1,1-Trichloroethane	0.68	0.0026	U
1,1,2,2-Tetrachloroethane	NA	0.0026	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0026	U
1,1,2-Trichloroethane	NA	0.0026	U
1,1-Dichloroethane	0.27	0.0026	U
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0026	U
1,2,3-Trichlorobenzene	NA	0.0026	U
1,2,3-Trichloropropane	NA	0.0026	U
1,2,4-Trichlorobenzene	NA	0.0026	U
1,2,4-Trimethylbenzene	3.6	0.0026	U
1,2-Dibromo-3-chloropropane	NA	0.0026	U
1,2-Dibromoethane	NA	0.0026	U
1,2-Dichlorobenzene	1.1	0.0026	U
1,2-Dichloroethane	0.02	0.0026	U
1,2-Dichloropropane	NA	0.0026	U
1,3,5-Trimethylbenzene	8.4	0.0026	U
1,3-Dichlorobenzene	2.4	0.0026	U
1,4-Dichlorobenzene	1.8	0.0026	U
1,4-Dioxane	0.1	0.053	U
2-Butanone (MEK)	0.12	0.0026	U
2-Hexanone	NA	0.0026	U
4-Methyl-2-pentanone	NA	0.0026	U
Acetone	0.05	0.0053	U
Acrolein	NA	0.0053	U
Acrylonitrile	NA	0.0026	U
Benzene	0.06	0.0026	U
Bromochloromethane	NA	0.0026	U
Bromodichloromethane	NA	0.0026	U
Bromoform	NA	0.0026	U
Bromomethane	NA	0.0026	U
Carbon disulfide	NA	0.0026	U
Carbon tetrachloride	0.76	0.0026	U
Chlorobenzene	1.1	0.0026	U
Chloroethane	NA	0.0026	U
Chloroform	0.37	0.0026	U
Chloromethane	NA	0.0026	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0026	U
cis-1,3-Dichloropropylene	NA	0.0026	U
Cyclohexane	NA	0.0026	U
Dibromochloromethane	NA	0.0026	U
Dibromomethane	NA	0.0026	U
Dichlorodifluoromethane	NA	0.0026	U
Ethyl Benzene	1	0.0026	U
Hexachlorobutadiene	NA	0.0026	U
Isopropylbenzene	2.3	0.0026	U
Methyl acetate	NA	0.0026	U
Methyl tert-butyl ether (MTBE)	0.93	0.0026	U
Methylcyclohexane	NA	0.0026	U
Methylene chloride	0.05	0.0053	U
n-Butylbenzene	12	0.0026	U
n-Propylbenzene	3.9	0.0026	U
o-Xylene	0.26	0.0026	U
p- & m- Xylenes	0.26	0.0053	U
p-Isopropyltoluene	10	0.0026	U
sec-Butylbenzene	11	0.0026	U
Styrene	NA	0.0026	U
tert-Butyl alcohol (TBA)	NA	0.0026	U
tert-Butylbenzene	5.9	0.0026	U
Tetrachloroethylene (PCE)	1.3	0.0026	U
Toluene	0.7	0.0026	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0026	U
trans-1,3-Dichloropropylene	NA	0.0026	U
Trichloroethylene (TCE)	0.47	0.0026	U
Trichlorofluoromethane	NA	0.0026	U
Vinyl chloride (VC)	0.02	0.0026	U
Xylenes, Total	0.26	0.0079	U

Analyte Detected

Analyte Above UUSCO

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 2: PAHs in Soils

WCD File: PQ18052.20



All data in mg/Kg (ppm)		SB-01 13-15		SB-02 13-15		SB-03 5-7		SB-04 5-7		SB-05 9.5-11.5	
U= Not Detected ≥ indicated value		(2018-08-21)		(2018-08-21)		(2018-08-23)		(2018-08-23)		(2018-08-23)	
Data above SCOs shown in Bold		2		2		2		2		2	
Sample ID	Sample Date										
Dilution Factor											
SVOCs, 8270	UUSCO	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>	<i>Result</i>	<i>Qualifier</i>
2-Methylnaphthalene	NA	0.0432	U	0.0431	U	0.0501	U	0.0458	U	0.0432	U
Acenaphthene	20	0.0432	U	0.0431	U	0.0501	U	0.0458	U	0.0432	U
Acenaphthylene	100	0.0432	U	0.0431	U	0.0501	U	0.0458	U	0.0432	U
Anthracene	100	0.0432	U	0.0431	U	0.0501	U	0.0461	JD	0.0432	U
Benzo(a)anthracene	1	0.0432	U	0.0431	U	0.0856	JD	0.284	D	0.0432	U
Benzo(a)pyrene	1	0.0432	U	0.0431	U	0.122	D	0.316	D	0.0432	U
Benzo(b)fluoranthene	1	0.0432	U	0.0431	U	0.12	D	0.306	D	0.0432	U
Benzo(g,h,i)perylene	100	0.0432	U	0.0431	U	0.0776	JD	0.193	D	0.0432	U
Benzo(k)fluoranthene	0.8	0.0432	U	0.0431	U	0.114	D	0.274	D	0.0432	U
Chrysene	1	0.0432	U	0.0431	U	0.136	D	0.279	D	0.0432	U
Dibenzo(a,h)anthracene	0.33	0.0432	U	0.0431	U	0.0501	U	0.057	JD	0.0432	U
Fluoranthene	100	0.0432	U	0.0431	U	0.314	D	0.455	D	0.0432	U
Fluorene	30	0.0432	U	0.0431	U	0.0501	U	0.0458	U	0.0432	U
Indeno(1,2,3-cd)pyrene	0.5	0.0432	U	0.0431	U	0.0656	JD	0.2	D	0.0432	U
Naphthalene	12	0.0432	U	0.0431	U	0.0501	U	0.0458	U	0.0432	U
Phenanthrene	100	0.0432	U	0.0431	U	0.192	D	0.224	D	0.0432	U
Pyrene	100	0.0432	U	0.0431	U	0.228	D	0.393	D	0.0432	U

Analyte Detected

Analyte Above UUSCO

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 1A: VOCs in Soils

WCD File: PQ18052.21



All data in mg/Kg (ppm)		Sample ID		HB-01 2-3		HB-02 2-3		HB-03 3-4	
U= Not Detected ≥ indicated value		Sample Date		(2018-10-22)		(2018-10-22)		(2018-10-22)	
Data above SCOs shown in Bold		Dilution Factor		1		1		1	
VOCs, 8260	UUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier		
1,1,1,2-Tetrachloroethane	NA	0.0026	U	0.0029	U	0.0024	U		
1,1,1-Trichloroethane	0.68	0.0026	U	0.0029	U	0.0024	U		
1,1,2,2-Tetrachloroethane	NA	0.0026	U	0.0029	U	0.0024	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0026	U	0.0029	U	0.0024	U		
1,1,2-Trichloroethane	NA	0.0026	U	0.0029	U	0.0024	U		
1,1-Dichloroethane	0.27	0.0026	U	0.0029	U	0.0024	U		
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0026	U	0.0029	U	0.0024	U		
1,2,3-Trichlorobenzene	NA	0.0026	U	0.0029	U	0.0024	U		
1,2,3-Trichloropropane	NA	0.0026	U	0.0029	U	0.0024	U		
1,2,4-Trichlorobenzene	NA	0.0026	U	0.0029	U	0.0024	U		
1,2,4-Trimethylbenzene	3.6	0.0026	U	0.0029	U	0.0024	U		
1,2-Dibromo-3-chloropropane	NA	0.0026	U	0.0029	U	0.0024	U		
1,2-Dibromoethane	NA	0.0026	U	0.0029	U	0.0024	U		
1,2-Dichlorobenzene	1.1	0.0026	U	0.0029	U	0.0024	U		
1,2-Dichloroethane	0.02	0.0026	U	0.0029	U	0.0024	U		
1,2-Dichloropropane	NA	0.0026	U	0.0029	U	0.0024	U		
1,3-Dichlorobenzene	2.4	0.0026	U	0.0029	U	0.0024	U		
1,3-Dichloropropane	NA	0.0026	U	0.0029	U	0.0024	U		
1,4-Dichlorobenzene	1.8	0.0026	U	0.0029	U	0.0024	U		
2,2-Dichloropropane	0.1	0.0026	U	0.0029	U	0.0024	U		
2-Chlorotoluene	NA	0.0026	U	0.0029	U	0.0024	U		
4-Chlorotoluene	NA	0.0026	U	0.0029	U	0.0024	U		
Bromobenzene	NA	0.0026	U	0.0029	U	0.0024	U		
Bromochloromethane	NA	0.0026	U	0.0029	U	0.0024	U		
Bromodichloromethane	NA	0.0026	U	0.0029	U	0.0024	U		
Bromoform	NA	0.0026	U	0.0029	U	0.0024	U		
Bromomethane	NA	0.0026	U	0.0029	U	0.0024	U		
Carbon tetrachloride	0.76	0.0026	U	0.0029	U	0.0024	U		
Chlorobenzene	1.1	0.0026	U	0.0029	U	0.0024	U		
Chloroethane	NA	0.0026	U	0.0029	U	0.0024	U		
Chloroform	0.37	0.0026	U	0.0029	U	0.0024	U		
Chloromethane	NA	0.0026	U	0.0029	U	0.0024	U		
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0026	U	0.0029	U	0.0024	U		
cis-1,3-Dichloropropylene	NA	0.0026	U	0.0029	U	0.0024	U		
Dibromochloromethane	NA	0.0026	U	0.0029	U	0.0024	U		
Dibromomethane	NA	0.0026	U	0.0029	U	0.0024	U		
Dichlorodifluoromethane	NA	0.0026	U	0.0029	U	0.0024	U		
Hexachlorobutadiene	NA	0.0026	U	0.0029	U	0.0024	U		
Methylene chloride	0.05	0.0053	U	0.0057	U	0.0048	U		
Tetrachloroethylene (PCE)	1.3	0.0026	U	0.0029	U	0.0024	U		
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0026	U	0.0029	U	0.0024	U		
trans-1,3-Dichloropropylene	NA	0.0026	U	0.0029	U	0.0024	U		
Trichloroethylene (TCE)	0.47	0.0026	U	0.0029	U	0.0024	U		
Trichlorofluoromethane	NA	0.0026	U	0.0029	U	0.0024	U		
Vinyl chloride (VC)	0.02	0.0026	U	0.0029	U	0.0024	U		

Analyte Detected

Analyte Above UUSCO

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 1A: VOCs in Soils

WCD File: PQ18052.21



All data in mg/Kg (ppm)		Sample ID		HB-04 3-4		HB-05 5-6		HB-06 4-5	
U= Not Detected ≥ indicated value		Sample Date		(2018-10-22)		(2018-10-22)		(2018-10-22)	
Data above SCOs shown in Bold		Dilution Factor		1		1		1	
VOCs, 8260	UUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier		
1,1,1,2-Tetrachloroethane	NA	0.0023	U	0.0025	U	0.0021	U		
1,1,1-Trichloroethane	0.68	0.0023	U	0.0025	U	0.0021	U		
1,1,2,2-Tetrachloroethane	NA	0.0023	U	0.0025	U	0.0021	U		
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0023	U	0.0025	U	0.0021	U		
1,1,2-Trichloroethane	NA	0.0023	U	0.0025	U	0.0021	U		
1,1-Dichloroethane	0.27	0.0023	U	0.0025	U	0.0021	U		
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0023	U	0.0025	U	0.0021	U		
1,2,3-Trichlorobenzene	NA	0.0023	U	0.0025	U	0.0021	U		
1,2,3-Trichloropropane	NA	0.0023	U	0.0025	U	0.0021	U		
1,2,4-Trichlorobenzene	NA	0.0023	U	0.0025	U	0.0021	U		
1,2,4-Trimethylbenzene	3.6	0.0023	U	0.0025	U	0.0021	U		
1,2-Dibromo-3-chloropropane	NA	0.0023	U	0.0025	U	0.0021	U		
1,2-Dibromoethane	NA	0.0023	U	0.0025	U	0.0021	U		
1,2-Dichlorobenzene	1.1	0.0023	U	0.0025	U	0.0021	U		
1,2-Dichloroethane	0.02	0.0023	U	0.0025	U	0.0021	U		
1,2-Dichloropropane	NA	0.0023	U	0.0025	U	0.0021	U		
1,3-Dichlorobenzene	2.4	0.0023	U	0.0025	U	0.0021	U		
1,3-Dichloropropane	NA	0.0023	U	0.0025	U	0.0021	U		
1,4-Dichlorobenzene	1.8	0.0023	U	0.0025	U	0.0021	U		
2,2-Dichloropropane	0.1	0.0023	U	0.0025	U	0.0021	U		
2-Chlorotoluene	NA	0.0023	U	0.0025	U	0.0021	U		
4-Chlorotoluene	NA	0.0023	U	0.0025	U	0.0021	U		
Bromobenzene	NA	0.0023	U	0.0025	U	0.0021	U		
Bromochloromethane	NA	0.0023	U	0.0025	U	0.0021	U		
Bromodichloromethane	NA	0.0023	U	0.0025	U	0.0021	U		
Bromoform	NA	0.0023	U	0.0025	U	0.0021	U		
Bromomethane	NA	0.0023	U	0.0025	U	0.0021	U		
Carbon tetrachloride	0.76	0.0023	U	0.0025	U	0.0021	U		
Chlorobenzene	1.1	0.0023	U	0.0025	U	0.0021	U		
Chloroethane	NA	0.0023	U	0.0025	U	0.0021	U		
Chloroform	0.37	0.0023	U	0.0025	U	0.0021	U		
Chloromethane	NA	0.0023	U	0.0025	U	0.0021	U		
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0023	U	0.0025	U	0.0021	U		
cis-1,3-Dichloropropylene	NA	0.0023	U	0.0025	U	0.0021	U		
Dibromochloromethane	NA	0.0023	U	0.0025	U	0.0021	U		
Dibromomethane	NA	0.0023	U	0.0025	U	0.0021	U		
Dichlorodifluoromethane	NA	0.0023	U	0.0025	U	0.0021	U		
Hexachlorobutadiene	NA	0.0023	U	0.0025	U	0.0021	U		
Methylene chloride	0.05	0.0047	U	0.005	U	0.0042	U		
Tetrachloroethylene (PCE)	1.3	0.0023	U	0.0025	U	0.0021	U		
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0023	U	0.0025	U	0.0021	U		
trans-1,3-Dichloropropylene	NA	0.0023	U	0.0025	U	0.0021	U		
Trichloroethylene (TCE)	0.47	0.0023	U	0.0025	U	0.0021	U		
Trichlorofluoromethane	NA	0.0023	U	0.0025	U	0.0021	U		
Vinyl chloride (VC)	0.02	0.0023	U	0.0025	U	0.0021	U		

Analyte Detected

Analyte Above UUSCO

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 1A: VOCs in Soils

WCD File: PQ18052.21



All data in mg/Kg (ppm)		SB-06 4-5		SB-07 4-5		SB-08 4-5	
U= Not Detected ≥ indicated value		(2018-10-22)		(2018-10-22)		(2018-10-22)	
Data above SCOs shown in Bold		1		1		1	
VOCs, 8260	UUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,1,1,2-Tetrachloroethane	NA	0.0028	U	0.0028	U	0.0027	U
1,1,1-Trichloroethane	0.68	0.0028	U	0.0064		0.0027	U
1,1,2,2-Tetrachloroethane	NA	0.0028	U	0.0028	U	0.0027	U
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0028	U	0.0028	U	0.0027	U
1,1,2-Trichloroethane	NA	0.0028	U	0.0028	U	0.0027	U
1,1-Dichloroethane	0.27	0.0028	U	0.0028	U	0.0027	U
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0028	U	0.0028	U	0.0027	U
1,2,3-Trichlorobenzene	NA	0.0028	U	0.0028	U	0.0027	U
1,2,3-Trichloropropane	NA	0.0028	U	0.0028	U	0.0027	U
1,2,4-Trichlorobenzene	NA	0.0028	U	0.0028	U	0.0027	U
1,2,4-Trimethylbenzene	3.6	0.0028	U	0.0028	U	0.0027	U
1,2-Dibromo-3-chloropropane	NA	0.0028	U	0.0028	U	0.0027	U
1,2-Dibromoethane	NA	0.0028	U	0.0028	U	0.0027	U
1,2-Dichlorobenzene	1.1	0.0028	U	0.0028	U	0.0027	U
1,2-Dichloroethane	0.02	0.0028	U	0.0028	U	0.0027	U
1,2-Dichloropropane	NA	0.0028	U	0.0028	U	0.0027	U
1,3-Dichlorobenzene	2.4	0.0028	U	0.0028	U	0.0027	U
1,3-Dichloropropane	NA	0.0028	U	0.0028	U	0.0027	U
1,4-Dichlorobenzene	1.8	0.0028	U	0.0028	U	0.0027	U
2,2-Dichloropropane	0.1	0.0028	U	0.0028	U	0.0027	U
2-Chlorotoluene	NA	0.0028	U	0.0028	U	0.0027	U
4-Chlorotoluene	NA	0.0028	U	0.0028	U	0.0027	U
Bromobenzene	NA	0.0028	U	0.0028	U	0.0027	U
Bromochloromethane	NA	0.0028	U	0.0028	U	0.0027	U
Bromodichloromethane	NA	0.0028	U	0.0028	U	0.0027	U
Bromoform	NA	0.0028	U	0.0028	U	0.0027	U
Bromomethane	NA	0.0028	U	0.0028	U	0.0027	U
Carbon tetrachloride	0.76	0.0028	U	0.0028	U	0.0027	U
Chlorobenzene	1.1	0.0028	U	0.0028	U	0.0027	U
Chloroethane	NA	0.0028	U	0.0028	U	0.0027	U
Chloroform	0.37	0.0028	U	0.007		0.0027	U
Chloromethane	NA	0.0028	U	0.0028	U	0.0027	U
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0028	U	0.0028	U	0.0027	U
cis-1,3-Dichloropropylene	NA	0.0028	U	0.0028	U	0.0027	U
Dibromochloromethane	NA	0.0028	U	0.0028	U	0.0027	U
Dibromomethane	NA	0.0028	U	0.0028	U	0.0027	U
Dichlorodifluoromethane	NA	0.0028	U	0.0028	U	0.0027	U
Hexachlorobutadiene	NA	0.0028	U	0.0028	U	0.0027	U
Methylene chloride	0.05	0.0055	U	0.0056	U	0.0053	U
Tetrachloroethylene (PCE)	1.3	0.0041	J	0.0035	J	0.0027	U
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0028	U	0.0028	U	0.0027	U
trans-1,3-Dichloropropylene	NA	0.0028	U	0.0028	U	0.0027	U
Trichloroethylene (TCE)	0.47	0.0028	U	0.0028	U	0.0027	U
Trichlorofluoromethane	NA	0.0028	U	0.0028	U	0.0027	U
Vinyl chloride (VC)	0.02	0.0028	U	0.0028	U	0.0027	U

Analyte Detected

Analyte Above UUSCO

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 1A: VOCs in Soils

WCD File: PQ18052.21



All data in mg/Kg (ppm)		Sample ID	SB-09 4-5	
U= Not Detected ≥ indicated value		Sample Date	(2018-10-22)	
Data above SCOs shown in Bold		Dilution Factor	1	
VOCs, 8260	UUSCO	Result	Qualifier	
1,1,1,2-Tetrachloroethane	NA	0.0027	U	
1,1,1-Trichloroethane	0.68	0.0027	U	
1,1,2,2-Tetrachloroethane	NA	0.0027	U	
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	0.0027	U	
1,1,2-Trichloroethane	NA	0.0027	U	
1,1-Dichloroethane	0.27	0.0027	U	
1,1-Dichloroethylene (1,1-DCE)	0.33	0.0027	U	
1,2,3-Trichlorobenzene	NA	0.0027	U	
1,2,3-Trichloropropane	NA	0.0027	U	
1,2,4-Trichlorobenzene	NA	0.0027	U	
1,2,4-Trimethylbenzene	3.6	0.0027	U	
1,2-Dibromo-3-chloropropane	NA	0.0027	U	
1,2-Dibromoethane	NA	0.0027	U	
1,2-Dichlorobenzene	1.1	0.0027	U	
1,2-Dichloroethane	0.02	0.0027	U	
1,2-Dichloropropane	NA	0.0027	U	
1,3-Dichlorobenzene	2.4	0.0027	U	
1,3-Dichloropropane	NA	0.0027	U	
1,4-Dichlorobenzene	1.8	0.0027	U	
2,2-Dichloropropane	0.1	0.0027	U	
2-Chlorotoluene	NA	0.0027	U	
4-Chlorotoluene	NA	0.0027	U	
Bromobenzene	NA	0.0027	U	
Bromochloromethane	NA	0.0027	U	
Bromodichloromethane	NA	0.0027	U	
Bromoform	NA	0.0027	U	
Bromomethane	NA	0.0027	U	
Carbon tetrachloride	0.76	0.0027	U	
Chlorobenzene	1.1	0.0027	U	
Chloroethane	NA	0.0027	U	
Chloroform	0.37	0.0027	U	
Chloromethane	NA	0.0027	U	
cis-1,2-Dichloroethylene (cis-DCE)	0.25	0.0027	U	
cis-1,3-Dichloropropylene	NA	0.0027	U	
Dibromochloromethane	NA	0.0027	U	
Dibromomethane	NA	0.0027	U	
Dichlorodifluoromethane	NA	0.0027	U	
Hexachlorobutadiene	NA	0.0027	U	
Methylene chloride	0.05	0.0053	U	
Tetrachloroethylene (PCE)	1.3	0.0027	U	
trans-1,2-Dichloroethylene (trans-DCE)	0.19	0.0027	U	
trans-1,3-Dichloropropylene	NA	0.0027	U	
Trichloroethylene (TCE)	0.47	0.0027	U	
Trichlorofluoromethane	NA	0.0027	U	
Vinyl chloride (VC)	0.02	0.0027	U	

Analyte Detected

Analyte Above UUSCO

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

APPENDIX C

Photographs



High pressure wash of tank interior



Tank interior and typical holes cut for sampling purposes



Filling tank with concrete



Surface restored to grade

APPENDIX D

Petroleum Bulk Storage Certificate



PBS Number
2-612992

New York State Department of Environmental Conservation
PETROLEUM BULK STORAGE CERTIFICATE
625 Broadway, 11th Floor, Albany, NY 12233-7020 Phone: 518-402-9553

Region 2 NYSDEC - PBS Unit
47-40 21st Street, 1st Floor
Long Island City, NY 11101-5407
(718) 482-6454

<u>TANK NUMBER</u>	<u>TANK SUBPART</u>	<u>TANK CATEGORY</u>	<u>TANK LOCATION</u>	<u>DATE INSTALLED</u>	<u>TANK TYPE</u>	<u>PRODUCT STORED</u>	<u>CAPACITY (GALLONS)</u>	
01	3	1	Underground including vaulted with no access for inspection	01/01/1977	Steel/Carbon Steel/Iron	#2 fuel oil (on-site consumption)	2,000	** , ***

**This tank is subject to annual tightness testing per 6NYCRR Section 613-3.3b1 (i).

***Piping associated with this tank is subject to line testing every year or every three years per 6NYCRR Section 613-2.3b (2) or 613-3.3b (2).

PBS regulations are available at http://www.dec.ny.gov/docs/remediation_hudson_pdf/part613text.pdf.

FACILITY NAME AND ADDRESS:

1124-1130 WYCKOFF AVENUE
1124-1130 WYCKOFF AVENUE
QUEENS, NY 11385

FACILITY (PROPERTY) OWNER:

WHITLOCK GROUP, LLC
215 EAST 79TH STREET
NEW YORK, NY 10075

Facility Operator: BEN POMEROY

Tank Owner Name:

Same as Property Owner

Emergency Contact Name: BEN POMEROY

Emergency Contact Phone Number: (917) 816-7638

Facility Phone Number

(917) 816-7638

ISSUED BY: Commissioner
Basil Seggos

PBS NUMBER: 2-612992

DATE ISSUED: 01/31/2019

EXPIRATION DATE: 09/28/2023

FEE PAID: \$100.00

MAILING CORRESPONDENCE:

BEN POMEROY
WHITLOCK GROUP, LLC
61 GREENPINT AVENUE
6TH FLOOR
BROOKLYN, NY 11222

As the owner of this facility and/or the tanks at this facility, the receipt, posting, and use of this certificate is an acknowledgement that I am responsible to the extent required by law for ensuring that this facility is in compliance with all regulations for the bulk storage of petroleum including those regarding equipment requirements, inspections, handling procedures, recordkeeping, registration requirements, providing advanced notice to the Department of major changes to a tank system, spill reporting, and all other applicable requirements. Violations may be punishable as a criminal offense and/or a civil violation in accordance with applicable state and federal law.

This registration certificate must be kept current and conspicuously posted at this facility at all times. Posting must be at the tank, at the entrance of the facility, or the main office where the storage tanks are located.

Spills must be reported to the DEC within two hours (1-800-457-7362).

Signature of Facility Owner/Authorized Representative _____ Date _____

Printed Name and Title of Facility Owner/Authorized Representative _____

APPENDIX E

AARCO Reports and Waste Manifest



AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: WCD Group Date: 6/11/19 Weather: Sunny

Job Location: 11-24 Wyckoff Ave, Queens Job #: 5175/3 Day of Week: Tuesday

Description of Work:

- Broke up concrete w/ mini thammer to dig down to top of tank
- Cleaned out 2,000 g. UST
- Cut 8 holes inside tank for sampling
- backfilled excavation

Manifest # 1690 Approval # _____ Gallons/Yards 450 G.

Manifest # _____ Approval # _____ Gallons/Yards _____

Start Time: 5: A.M. Leave Shop: 5:30 A.M.

Arrive on Job Site: 7:00 A.M. Leave Job Site (1): 3:00 P.M. Total Hrs On-Site: 8

Arrive at Shop: 6:45 P.M. Clock Out Time: 6:45 P.M. Total Hrs for Day: 13 1/4

Overtime approved by: _____)

Employee:	Prevailing Wage Yes or No:	PW Category:
<u>Brian Wyble</u>	<u>No</u>	_____
<u>Oscar Caceres</u>	<u>No</u>	_____
<u>Eton Kenz</u>	<u>No</u>	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Equipment Used:	Material Used:
<u>417</u>	_____
<u>Mini w/ thammer</u>	_____
<u>U-654</u>	_____
_____	_____
_____	_____
_____	_____

Aarco Signature: X

Client Signature: X

AARCO WORK ORDER INPUT FORM

Oscar – Etem – Brian W

Order#: 5175
Job Date: 06/11/2019
Start Time: 5:00 AM
Onsite Time: 7:00 AM

Job #: 3

Site Address: 11-24 Wyckoff Avenue

Queens NY 11385

Client: WCD Group

Est. Project Duration:

Salesperson: Steven Plotker

Site Contact Name: Rich

Project Assistant:

Site Contact Phone #: (845) 867-4715

Operator: 2	Laborer: 1	Driller:	Tank Tester:
PW Operator:	PW Laborer:	PW Chauffeur:	PW Plumber:
PW Driller:	PW Driller Helper:	PW Elec:	

ContSpaceEquip:	Drill Rig:	Geoprobe:	Air Knife:
Disposat:	Backhoe: Mini	Sonic Rig:	Air Comp:
Flat Bed:	Guzzler:	Vactor:	Lg Dump:
Jetter: X	Smdump: 414 + 1	RollOff:	Vac Truck: 654
Tank Test Truck:	Box Truck:	Utility Truck:	Pickup Truck:

Material / Equipment: squeegees, biosolve, absorbents, drums, sample jars, cooler, COC

SCOPE: cleaning of one (1) 2,000 gallon # 2 fuel oil UST - An excavator with hammer attachment will break up and remove concrete. The concrete will be disposed of as clean C&D. The tank will be pumped empty. AARCO will excavate to the top of the tank in order to cut open to facilitate the cleaning and performing CSE. Once tank is properly cleaned, AARCO personnel will be prepared to enter the tank and obtain soil samples from the sides and the bottoms by cutting holes. Once samples are taken, a steel plate will be placed over entry point and excavation will be backfilled.



AARCO Environmental Services Corp.

Tailgate Safety Meeting Report

Tailgate safety meetings will be 10-15 minute on-the job meetings held to keep employees alert to work-related accidents and illnesses (e.g., heat stress, lockout/tagout).

Reports must be filled out, signed and returned at the end of each day.

DATE: _____

WO#: _____ PROJECT LEADER/DESIGNATED H&S OFFICER _____

PROJECT: _____ WEATHER: _____

TOPICS:

- 1) PPE
- 2) Traffic Safety
- 3) Pedestrians/Noise
- 4) Local Hospital
- 5) Trips and/or Falls

COMMENTS: _____

Meeting Attendance

Name	Signature
1. Etem Kleris	
2. Brian Wyble	
3. Oscar Caceres	
4.	
5.	
6.	

Near Miss Reporting (if necessary)

(ATTACH ADDITIONAL REPORTS FOR ADDITIONAL ATTENDANTS)



AARCO Environmental Services Corp.

DAILY JOB REPORT

Customer: WCD Group Date: 12-24-19 Weather: Sun 45°

Job Location: 11-24 Wyckoff Ave Job #: 8024 127 Day of Week: Tuesday

Description of Work: Dug up ~~out~~ a 2,000 UST. Filled with Concrete Slurry (10 yards). Backfilled Excavation to Grade.
- Removed cab on Mini Excavator to Fit In Building.

Manifest # NA Approval # - Gallons/Yards -

Manifest # NA Approval # - Gallons/Yards -

Start Time: 5AM Leave Shop: 6:30AM
Arrive on Job Site: 7:30AM Leave Job Site (1): 12:00 noon Total Hrs On-Site: _____
Arrive at Shop: 2pm Clock Out Time: 2pm Total Hrs for Day: _____

Overtime approved by: _____)

Employee:	Prevailing Wage Yes or No:	PW Category:
<u>Roy Terlaga 8</u>	<u>NO</u>	_____
<u>Sid Sumner 8 .42</u>	<u>NO</u>	_____
<u>Will Schaner 8 .30</u>	<u>NO</u>	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Equipment Used:	Material Used:
<u>2- Field Truck Roy's 061</u>	_____
<u>2- Trailers</u>	_____
<u>1- Skid Steer</u>	_____
<u>1- Mini Excavator</u>	_____
_____	_____
_____	_____

Aarco Signature: X [Signature] Client Signature: X [Signature]

AARCO WORK ORDER INPUT FORM

Roy - Will S - Sid

Order#: 8024

Job Date: 12/24/2019

Start Time: 5:00 AM

Onsite Time: 7:00 AM

Job #: 27

Site Address: 11-24 Wyckoff Avenue

Client: WCD Group

Flushing

NY 11385

Est. Project Duration:

Salesperson: Steven Plotker

Site Contact Name: Rich

Erick

Project Assistant:

Site Contact Phone #: (845) 867-4715

(845) 867-4716

Operator: 2

Laborer: 1

Driller:

Tank Tester:

PW Operator:

PW Laborer:

PW Chauffeur:

PW Plumber:

PW Driller:

PW Driller Helper:

PW Elec:

ContSpaceEquip:

Drill Rig:

Geoprobe:

Air Knife:

Disposal:

Backhoe: Mini & Skidsteer

Sonic Rig:

Air Comp:

Flat Bed:

Guzzler:

Vactor:

Lg Dump:

Jetter:

Smdump: 173

RollOff:

Vac Truck:

Tank Test Truck:

Box Truck:

Utility Truck:

Pickup Truck: 3147

Material / Equipment: 10 yards backfill, Chute for concrete slurry

SCOPE: closure of one (1) 2,000 Gallon UST

- Excavate to the top of the tank with Mini Excavator
- Mobilize 10 Yards of concrete slurry - being delivered @ 10AM by Advanced Transit (718) 497-5020
- Place concrete slurry within tank utilizing additional chutes and Skid Steer
- Cover tank, place backfill to grade.



AARCO Environmental Services Corp.

Tailgate Safety Meeting Report

Tailgate safety meetings will be 10-15 minute on-the job meetings held to keep employees alert to work-related accidents and illnesses (e.g., heat stress, lockout/tagout).

Reports must be filled out, signed and returned at the end of each day.

DATE: 12/24/2019

WO#: 8024 PROJECT LEADER/DESIGNATED H&S OFFICER Roy Terlaga

PROJECT: WCD Group WEATHER: Sun 45°

TOPICS:

- 1) PPE
- 2) Traffic Safety
- 3) Pedestrians/Noise
- 4) Local Hospital:
- 5) Trips and/or Falls

COMMENTS: _____

Meeting Attendance

	Name	Signature
1.	Roy Terlaga	
2.	Sid Sumner	
3.	Will Schein	
4.		
5.		
6.		

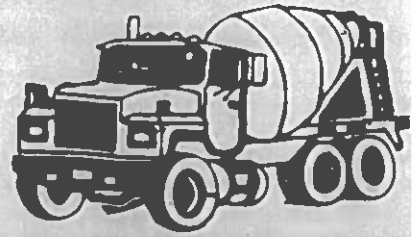
Near Miss Reporting (if necessary)

(ATTACH ADDITIONAL REPORTS FOR ADDITIONAL ATTENDANTS)

ALL AMERICAN TRANSIT MIX CORP.

P.O. Box 739
Brooklyn, NY 11237

Phone: 718-417-3654
Fax: 718-628-1657



DELIVERY CONDITIONS: The Purchaser agrees to provide suitable roadways or approaches to points of delivery when material is to be delivered by trucks in places other than on paved streets. We reserve the right to stop deliveries if the roadways or approaches are unsatisfactory to us.

In the event Purchaser orders delivery beyond curb line, we will not assume liability for damage to sidewalks, driveways or other property and Purchaser hereby agrees to indemnify and hold ALL AMERICAN TRANSIT MIX CORP. harmless against all liability, loss and expense incurred as a result of such deliveries.

OVERTIME DELIVERIES: An additional charge will be made for deliveries when requested after 5:00 p.m. on weekdays.

Saturday deliveries to 12:00 noon are subject to an additional charge.

ADDED INGREDIENTS: Purchaser assumes full responsibility for strength, slump and quality of concrete when additional water or other material is requested on the job site.

WATER ADDED:

GALLONS _____ Customer's representative

WARNING: Concrete products contain chemicals which may cause skin irritation. Avoid skin contact. If contact is made wash promptly. SEE REVERSE SIDE FOR MSDS INFO

DETENTION OF TRUCKS AT THE JOB SITE: Purchaser will be allowed 5 minutes per cubic yard free unloading time after arrival of truck on job. Delay caused by Purchaser over this time will be charged for at the current per hour rate.

No claims for delays encountered in delivery will be allowed as all deliveries are made to the best of our ability and dispatch.

DAMAGE TO TRUCKS AND EQUIPMENT: Purchaser agrees to pay any and all costs for repairs, necessitated by damage to our trucks and/or equipment resulting from any negligence on his part during the process of delivery on work site.

SIZE OF LOAD: Concrete prices are based on full truck loads. An additional charge will be made for less than 6 cubic yards.

RECEIVED BY _____

I have read and understood all the terms and conditions on this form.

No. 38996

CUSTOMER ID	P.O. NUMBER	PARISH	JOB NUMBER	DRIVER	DATE	TICKET	
			2558	WALL	10/27/19	30508	
SOLD TO			DELIVER TO		DEPART PLANT	ARRIVE LOCATION	
Job # 5024			510-216-2568 WILLIE		1020	10:38	
					DEPART LOCATION	ARRIVE PLANT	
QUANTITY THIS LOAD	QUANTITY ORDERED	QUANTITY DELIVERED	PRODUCT CODE	PRODUCT DESCRIPTION	UNIT OF MEASURE	UNIT PRICE	EXTENDED PRICE
10.00	10.00	10.00	GR0125	2500 GR0125	YD	110.00	1100.00
10.00			N70	WINTER CONCRETE	YD	5.00	50.00
10.00			FUEL	FUEL CHARGE	YD	30.00	30.00
TRUCK	PLANT	SLUMP	DUE AT JOB	USE OF CONCRETE	SUB TOTAL		1187.00
					TAX		7.10
ACCELERATOR AIR ENTRAIN SUPER PLAS. WATER REDUCER					TOTAL		1187.10

DELIVERY INSTRUCTIONS

SPECIAL INSTRUCTIONS

Truck #654

Job #5175

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No.

Manifest Doc. No.

2. Page 1

1690

of

3. Generator's Name and Mailing Address

WCD Group
1124 WYCKOFF AVENUE
GREEN NY 11385

4. Generator's Phone ()

5. Transporter 1 Company Name

AARCO ENVIRONMENTAL SERVICES CORP.

6. US EPA ID Number

N.Y.R. 0.0.0.1.0.7.3.2.6

A. Transporter's Phone

631-586-5900

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

DALE TRANSFER CORP.
129 DALE STREET
WEST BABYLON, NY 11704

10. US EPA ID Number

N/A

C. Facility's Phone

631-393-2882

11. Waste Shipping Name and Description

12. Containers

No. Type

13. Total Quantity

14. Unit Wt/Vol

a. NON-HAZARDOUS WASTE SOLID

P

b. NON-HAZARDOUS WASTE LIQUID

#2 oil tank bottom sludge

001 TT

450

G

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

EMERGENCY PHONE # 631-586-5900

Truck # V 654
Job # 5175

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name

X JULIO COSAR SUAREZ

Signature

[Signature]

Month Day Year

10 11 19

17. Transporter 1 Acknowledgment of Receipt of Materials

Printed/Typed Name

Armando Sanchez

Signature

[Signature]

Month Day Year

10 11 19

18. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

. . .

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name

Armando Sanchez

Signature

[Signature]

Month Day Year

10 11 19

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

APPENDIX F

Data Summary Tables

Table 1: Petroleum Compounds in Soils

NYSDEC PBS No. 2-612992

File: PQ18052

All data in mg/Kg (ppm) U= Not Detected ≥ indicated value Data above SCOs shown in Bold		Sample ID		UST-01 N		UST-01 S		UST-01 NW		UST-01 NE	
		Sample Date		6/11/2019		6/11/2019		6/11/2019		6/11/2019	
		Dilution Factor		1		1		1		1	
VOCs, 8260		UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
1,2,4-Trimethylbenzene	3.6	52	0.003	U	0.0052	U	0.0031	U	0.0027	U	
1,3,5-Trimethylbenzene	8.4	52	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Benzene	0.06	4.8	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Ethyl Benzene	1	41	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Isopropylbenzene	2.3	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Methyl tert-butyl ether (MTBE)	0.93	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Naphthalene	12	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
n-Butylbenzene	12	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
n-Propylbenzene	3.9	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
o-Xylene	0.26	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
p- & m- Xylenes	0.26	100	0.0059	U	0.01	U	0.0062	U	0.0054	U	
p-Isopropyltoluene	10	NA	0.003	U	0.0052	U	0.0031	U	0.0027	U	
sec-Butylbenzene	11	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
tert-Butylbenzene	5.9	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Toluene	0.7	100	0.003	U	0.0052	U	0.0031	U	0.0027	U	
Xylenes, Total	0.26	100	0.0089	U	0.016	U	0.0093	U	0.0081	U	

		Sample ID		UST-01 N		UST-01 S		UST-01 NW		UST-01 NE	
		Sample Date		6/11/2019		6/11/2019		6/11/2019		6/11/2019	
		Dilution Factor		20		2		2		5	
SVOCs, 8270		UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier
Acenaphthene	20	100	0.9	D	0.17	D	0.11	D	0.17	D	
Acenaphthylene	100	100	1	D	0.1	D	0.081	JD	0.2	D	
Anthracene	100	100	2.8	D	0.49	D	0.32	D	0.68	D	
Benzo(a)anthracene	1	1	10	D	1.6	D	0.87	D	1.9	D	
Benzo(a)pyrene	1	1	8.4	D	1.5	D	0.77	D	1.7	D	
Benzo(b)fluoranthene	1	1	7.7	D	1.3	D	0.73	D	1.6	D	
Benzo(g,h,i)perylene	100	100	5	D	0.9	D	0.48	D	1.1	D	
Benzo(k)fluoranthene	0.8	3.9	7.6	D	1.3	D	0.63	D	1.5	D	
Chrysene	1	3.9	10	D	1.6	D	0.85	D	1.8	D	
Dibenzo(a,h)anthracene	0.33	0.33	1.9	D	0.3	D	0.18	D	0.4	D	
Fluoranthene	100	100	20	D	3.8	D	2.1	D	5.1	D	
Fluorene	30	100	1.3	D	0.17	D	0.11	D	0.23	D	
Indeno(1,2,3-cd)pyrene	0.5	0.5	6	D	1	D	0.55	D	1.3	D	
Naphthalene	12	100	0.53	D	0.065	JD	0.065	JD	0.05	JD	
Phenanthrene	100	100	14	D	2.3	D	1.6	D	2.9	DE	
pyrene	100	100	18	D	3.3	D	1.8	D	4.2	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 1: Petroleum Compounds in Soils

NYSDEC PBS No. 2-612992

File: PQ18052

All data in mg/Kg (ppm) U= Not Detected ≥ indicated value Data above SCOs shown in Bold		Sample ID		UST-01 SW		UST-01 SE		UST-01 BN		UST-01 BS	
		Sample Date		6/11/2019		6/11/2019		6/11/2019		6/11/2019	
		Dilution Factor		1		1		1		1	
VOCs, 8260	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
1,2,4-Trimethylbenzene	3.6	52	0.0042	U	0.0029	U	0.0031	U	0.003	U	
1,3,5-Trimethylbenzene	8.4	52	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Benzene	0.06	4.8	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Ethyl Benzene	1	41	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Isopropylbenzene	2.3	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Methyl tert-butyl ether (MTBE)	0.93	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Naphthalene	12	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
n-Butylbenzene	12	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
n-Propylbenzene	3.9	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
o-Xylene	0.26	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
p- & m- Xylenes	0.26	100	0.0084	U	0.0058	U	0.0061	U	0.006	U	
p-Isopropyltoluene	10	NA	0.0042	U	0.0029	U	0.0031	U	0.003	U	
sec-Butylbenzene	11	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
tert-Butylbenzene	5.9	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Toluene	0.7	100	0.0042	U	0.0029	U	0.0031	U	0.003	U	
Xylenes, Total	0.26	100	0.013	U	0.0087	U	0.0092	U	0.009	U	

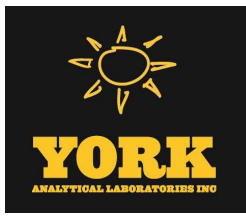
		Sample ID		UST-01 SW		UST-01 SE		UST-01 BN		UST-01 BS	
		Sample Date		6/11/2019		6/11/2019		6/11/2019		6/11/2019	
		Dilution Factor		2		5		2		2	
SVOCs, 8270	UUSCO	RRUSCO	Result	Qualifier	Result	Qualifier	Result	Qualifier	Result	Qualifier	
Acenaphthene	20	100	0.045	U	0.2	D	0.045	U	0.049	U	
Acenaphthylene	100	100	0.045	U	0.12	D	0.045	U	0.049	U	
Anthracene	100	100	0.045	U	0.6	D	0.045	U	0.049	U	
Benzo(a)anthracene	1	1	0.045	U	1.8	D	0.045	U	0.049	U	
Benzo(a)pyrene	1	1	0.045	U	1.7	D	0.045	U	0.049	U	
Benzo(b)fluoranthene	1	1	0.045	U	1.6	D	0.045	U	0.049	U	
Benzo(g,h,i)perylene	100	100	0.045	U	1	D	0.045	U	0.13	D	
Benzo(k)fluoranthene	0.8	3.9	0.045	U	1.3	D	0.045	U	0.049	U	
Chrysene	1	3.9	0.045	U	1.7	D	0.045	U	0.049	U	
Dibenzo(a,h)anthracene	0.33	0.33	0.045	U	0.41	D	0.045	U	0.049	U	
Fluoranthene	100	100	0.045	U	4.5	D	0.045	U	0.049	U	
Fluorene	30	100	0.045	U	0.21	D	0.045	U	0.049	U	
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.045	U	1.2	D	0.045	U	0.13	D	
Naphthalene	12	100	0.045	JD	0.079	JD	0.045	U	0.049	U	
Phenanthrene	100	100	0.045	U	2.5	D	0.045	U	0.049	U	
pyrene	100	100	0.045	U	3.8	D	0.045	U	0.049	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

APPENDIX G

Laboratory Report



Technical Report

prepared for:

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Erick Salazar

Report Date: 06/18/2019
Client Project ID: PQ18052
York Project (SDG) No.: 19F0425

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

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 06/18/2019
Client Project ID: PQ18052
York Project (SDG) No.: 19F0425

WCD Group - Poughkeepsie NY
24 Davis Avenue
Poughkeepsie NY, 12603
Attention: Erick Salazar

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 12, 2019 and listed below. The project was identified as your project: **PQ18052**.

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>
19F0425-01	UST-01 N	Soil	06/11/2019	06/12/2019
19F0425-02	UST-01 S	Soil	06/11/2019	06/12/2019
19F0425-03	UST-01 NW	Soil	06/11/2019	06/12/2019
19F0425-04	UST-01 NE	Soil	06/11/2019	06/12/2019
19F0425-05	UST-01 SW	Soil	06/11/2019	06/12/2019
19F0425-06	UST-01SE	Soil	06/11/2019	06/12/2019
19F0425-07	UST-01 BN	Soil	06/11/2019	06/12/2019
19F0425-08	UST-01 BS	Soil	06/11/2019	06/12/2019

General Notes for York Project (SDG) No.: 19F0425

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: 06/18/2019





Sample Information

Client Sample ID: UST-01 N

York Sample ID: 19F0425-01

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	90.0		%	0.100	1	SM 2540G Certifications: CTDOH	06/12/2019 21:17	06/13/2019 10:41	JTV

Sample Information

Client Sample ID: UST-01 S

York Sample ID: 19F0425-02

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
71-43-2	Benzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	5.2	21	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	10	21	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ



Sample Information

Client Sample ID: UST-01 S

York Sample ID: 19F0425-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19F0425

PQ18052

Soil

June 11, 2019 12:00 am

06/12/2019

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	5.2	10	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	16	31	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 10:34	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	107 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURR: p-Bromofluorobenzene	103 %			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	170		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
208-96-8	Acenaphthylene	100		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
120-12-7	Anthracene	490		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
56-55-3	Benzo(a)anthracene	1600		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
50-32-8	Benzo(a)pyrene	1500		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
205-99-2	Benzo(b)fluoranthene	1300		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
191-24-2	Benzo(g,h,i)perylene	900		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
207-08-9	Benzo(k)fluoranthene	1300		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
218-01-9	Chrysene	1600		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
53-70-3	Dibenzo(a,h)anthracene	300		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
206-44-0	Fluoranthene	3800		ug/kg dry	120	230	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 12:32	SR
86-73-7	Fluorene	170		ug/kg dry	46	92	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
193-39-5	Indeno(1,2,3-cd)pyrene	1000		ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR
91-20-3	Naphthalene	65	J	ug/kg dry	46	92	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/17/2019 23:39	SR



Sample Information

Client Sample ID: UST-01 S

York Sample ID: 19F0425-02

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19F0425, PQ18052, Soil, June 11, 2019 12:00 am, 06/12/2019

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. Rows include Phenanthrene, Pyrene, and Surrogate Recoveries.

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. Row: solids, % Solids, 90.5, %, 0.100, 1, SM 2540G.

Sample Information

Client Sample ID: UST-01 NW

York Sample ID: 19F0425-03

Table with 5 columns: York Project (SDG) No., Client Project ID, Matrix, Collection Date/Time, Date Received. Values: 19F0425, PQ18052, Soil, June 11, 2019 12:00 am, 06/12/2019

Volatile Organics, CP-51 (formerly STARS) List

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. Rows include 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, Benzene, Ethyl Benzene, Isopropylbenzene, Methyl tert-butyl ether (MTBE), Naphthalene.



Sample Information

Client Sample ID: UST-01 NW

York Sample ID: 19F0425-03

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.2	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.1	6.2	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.3	19	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 11:00	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	106 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	102 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	103 %	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	110		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
208-96-8	Acenaphthylene	81	J	ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
120-12-7	Anthracene	320		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
56-55-3	Benzo(a)anthracene	870		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
50-32-8	Benzo(a)pyrene	770		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
205-99-2	Benzo(b)fluoranthene	730		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
191-24-2	Benzo(g,h,i)perylene	480		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR



Sample Information

Client Sample ID: UST-01 NW

York Sample ID: 19F0425-03

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	630		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
218-01-9	Chrysene	850		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
53-70-3	Dibenzo(a,h)anthracene	180		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
206-44-0	Fluoranthene	2100		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
86-73-7	Fluorene	110		ug/kg dry	45	90	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	550		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
91-20-3	Naphthalene	65	J	ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
85-01-8	Phenanthrene	1600		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
129-00-0	Pyrene	1800		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:11	SR
Surrogate Recoveries		Result			Acceptance Range						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	55.3 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	53.9 %			21-113						
1718-51-0	Surrogate: SURR: Terphenyl-d14	66.1 %			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	92.1		%	0.100	1	SM 2540G Certifications: CTDOH	06/12/2019 21:17	06/13/2019 10:41	JTV

Sample Information

Client Sample ID: UST-01 NE

York Sample ID: 19F0425-04

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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Volatile Organics, CP-51 (formerly STARS) List

Log-in Notes:

Sample Notes:



Sample Information

Client Sample ID: UST-01 NE

York Sample ID: 19F0425-04

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.7	11	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.4	11	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.7	5.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.1	16	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 11:27	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	106 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	102 %	85-120
460-00-4	Surrogate: SURR: 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	170		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR



Sample Information

Client Sample ID: UST-01 NE

York Sample ID: 19F0425-04

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19F0425

PQ18052

Soil

June 11, 2019 12:00 am

06/12/2019

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	200		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
120-12-7	Anthracene	680		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
56-55-3	Benzo(a)anthracene	1900		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
50-32-8	Benzo(a)pyrene	1700		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
205-99-2	Benzo(b)fluoranthene	1600		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
191-24-2	Benzo(g,h,i)perylene	1100		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
207-08-9	Benzo(k)fluoranthene	1500		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
218-01-9	Chrysene	1800		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
53-70-3	Dibenzo(a,h)anthracene	400		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
206-44-0	Fluoranthene	5100		ug/kg dry	110	230	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 13:03	SR
86-73-7	Fluorene	230		ug/kg dry	46	91	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
193-39-5	Indeno(1,2,3-cd)pyrene	1300		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
91-20-3	Naphthalene	50	J	ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
85-01-8	Phenanthrene	2900		ug/kg dry	46	91	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 00:43	SR
129-00-0	Pyrene	4200		ug/kg dry	110	230	5	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 13:03	SR
Surrogate Recoveries		Result			Acceptance Range						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	69.0 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	67.0 %			21-113						
1718-51-0	Surrogate: SURR: Terphenyl-d14	81.4 %			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	90.5		%	0.100	1	SM 2540G Certifications: CTDOH	06/12/2019 21:17	06/13/2019 10:41	JTV



Sample Information

Client Sample ID: UST-01 SW

York Sample ID: 19F0425-05

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
71-43-2	Benzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	4.2	17	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	8.4	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
108-88-3	Toluene	ND		ug/kg dry	4.2	8.4	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	13	25	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 11:54	LLJ

Surrogate Recoveries

Result

Acceptance Range

17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	104 %	77-125
2037-26-5	Surrogate: SURR: Toluene-d8	102 %	85-120
460-00-4	Surrogate: SURR: 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
83-32-9	Acenaphthene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR



Sample Information

Client Sample ID: UST-01 SW

York Sample ID: 19F0425-05

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19F0425

PQ18052

Soil

June 11, 2019 12:00 am

06/12/2019

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	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
120-12-7	Anthracene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
218-01-9	Chrysene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
206-44-0	Fluoranthene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
86-73-7	Fluorene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
91-20-3	Naphthalene	45	J	ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
85-01-8	Phenanthrene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
129-00-0	Pyrene	ND		ug/kg dry	45	90	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 01:15	SR
Surrogate Recoveries		Result	Acceptance Range								
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	40.2 %	22-108								
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	39.2 %	21-113								
1718-51-0	Surrogate: SURR: Terphenyl-d14	45.7 %	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	91.8		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2019 09:32	06/13/2019 13:00	JTV



Sample Information

Client Sample ID: UST-01SE

York Sample ID: 19F0425-06

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19F0425

PQ18052

Soil

June 11, 2019 12:00 am

06/12/2019

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	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
71-43-2	Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	2.9	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	5.8	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
108-88-3	Toluene	ND		ug/kg dry	2.9	5.8	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	8.7	17	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 12:20	LLJ
Surrogate Recoveries		Result	Acceptance Range								
17060-07-0	Surrogate: SURRE: 1,2-Dichloroethane-d4	103 %	77-125								
2037-26-5	Surrogate: SURRE: Toluene-d8	103 %	85-120								
460-00-4	Surrogate: SURRE: p-Bromofluorobenzene	103 %	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: UST-01SE

York Sample ID: 19F0425-06

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	90.0		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2019 09:32	06/13/2019 13:00	JTV

Sample Information

Client Sample ID: UST-01 BN

York Sample ID: 19F0425-07

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	3.1	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.1	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ



Sample Information

Client Sample ID: UST-01 BN

York Sample ID: 19F0425-07

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

19F0425

PQ18052

Soil

June 11, 2019 12:00 am

06/12/2019

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	3.1	6.1	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.2	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 12:47	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: SURR: 1,2-Dichloroethane-d4	105 %			77-125						
2037-26-5	Surrogate: SURR: Toluene-d8	103 %			85-120						
460-00-4	Surrogate: SURR: 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	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
120-12-7	Anthracene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
218-01-9	Chrysene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
206-44-0	Fluoranthene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
86-73-7	Fluorene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
91-20-3	Naphthalene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
85-01-8	Phenanthrene	ND		ug/kg dry	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR



Sample Information

Client Sample ID: UST-01 BN

York Sample ID: 19F0425-07

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	45	89	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:20	SR
Surrogate Recoveries		Result			Acceptance Range						
4165-60-0	Surrogate: SURR: Nitrobenzene-d5	53.6 %			22-108						
321-60-8	Surrogate: SURR: 2-Fluorobiphenyl	52.6 %			21-113						
1718-51-0	Surrogate: SURR: Terphenyl-d14	66.6 %			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	93.2		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2019 09:32	06/13/2019 13:00	JTV

Sample Information

Client Sample ID: UST-01 BS

York Sample ID: 19F0425-08

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
71-43-2	Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
100-41-4	Ethyl Benzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
98-82-8	Isopropylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
91-20-3	Naphthalene	ND		ug/kg dry	3.0	12	1	EPA 8260C Certifications: NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
104-51-8	n-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ



Sample Information

Client Sample ID: UST-01 BS

York Sample ID: 19F0425-08

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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
103-65-1	n-Propylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
95-47-6	o-Xylene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	6.0	12	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
135-98-8	sec-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
98-06-6	tert-Butylbenzene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
108-88-3	Toluene	ND		ug/kg dry	3.0	6.0	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,PADEP,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
1330-20-7	Xylenes, Total	ND		ug/kg dry	9.0	18	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJDEP	06/14/2019 07:00	06/14/2019 13:14	LLJ
Surrogate Recoveries		Result			Acceptance Range						
17060-07-0	Surrogate: <i>SURR:</i> <i>1,2-Dichloroethane-d4</i>	106 %			77-125						
2037-26-5	Surrogate: <i>SURR:</i> <i>Toluene-d8</i>	106 %			85-120						
460-00-4	Surrogate: <i>SURR:</i> <i>p-Bromofluorobenzene</i>	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	Acenaphthene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
120-12-7	Anthracene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
191-24-2	Benzo(g,h,i)perylene	130		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
218-01-9	Chrysene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR



Sample Information

Client Sample ID: UST-01 BS

York Sample ID: 19F0425-08

<u>York Project (SDG) No.</u> 19F0425	<u>Client Project ID</u> PQ18052	<u>Matrix</u> Soil	<u>Collection Date/Time</u> June 11, 2019 12:00 am	<u>Date Received</u> 06/12/2019
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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	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
206-44-0	Fluoranthene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
86-73-7	Fluorene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
193-39-5	Indeno(1,2,3-cd)pyrene	130		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
91-20-3	Naphthalene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
85-01-8	Phenanthrene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
129-00-0	Pyrene	ND		ug/kg dry	49	98	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/14/2019 14:37	06/18/2019 02:53	SR
Surrogate Recoveries		Result			Acceptance Range						
4165-60-0	Surrogate: SURRE: Nitrobenzene-d5	65.4 %			22-108						
321-60-8	Surrogate: SURRE: 2-Fluorobiphenyl	62.6 %			21-113						
1718-51-0	Surrogate: SURRE: Terphenyl-d14	75.0 %			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	84.0		%	0.100	1	SM 2540G Certifications: CTDOH	06/13/2019 09:32	06/13/2019 13:00	JTV



Analytical Batch Summary

Batch ID: BF90565 **Preparation Method:** EPA 5035A **Prepared By:** LLJ

YORK Sample ID	Client Sample ID	Preparation Date
19F0425-01	UST-01 N	06/14/19
19F0425-02	UST-01 S	06/14/19
19F0425-03	UST-01 NW	06/14/19
19F0425-04	UST-01 NE	06/14/19
19F0425-05	UST-01 SW	06/14/19
19F0425-06	UST-01SE	06/14/19
19F0425-07	UST-01 BN	06/14/19
19F0425-08	UST-01 BS	06/14/19
BF90565-BLK1	Blank	06/14/19
BF90565-BS1	LCS	06/14/19
BF90565-BSD1	LCS Dup	06/14/19

Batch ID: BF90659 **Preparation Method:** % Solids Prep **Prepared By:** MAO

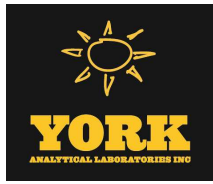
YORK Sample ID	Client Sample ID	Preparation Date
19F0425-01	UST-01 N	06/12/19
19F0425-02	UST-01 S	06/12/19
19F0425-03	UST-01 NW	06/12/19
19F0425-04	UST-01 NE	06/12/19

Batch ID: BF90675 **Preparation Method:** % Solids Prep **Prepared By:** JTV

YORK Sample ID	Client Sample ID	Preparation Date
19F0425-05	UST-01 SW	06/13/19
19F0425-06	UST-01SE	06/13/19
19F0425-07	UST-01 BN	06/13/19
19F0425-08	UST-01 BS	06/13/19

Batch ID: BF90782 **Preparation Method:** EPA 3550C **Prepared By:** MAT

YORK Sample ID	Client Sample ID	Preparation Date
19F0425-01	UST-01 N	06/14/19
19F0425-01RE1	UST-01 N	06/14/19
19F0425-02	UST-01 S	06/14/19
19F0425-02RE1	UST-01 S	06/14/19
19F0425-03	UST-01 NW	06/14/19
19F0425-04	UST-01 NE	06/14/19
19F0425-04RE1	UST-01 NE	06/14/19
19F0425-05	UST-01 SW	06/14/19
19F0425-06	UST-01SE	06/14/19
19F0425-06RE1	UST-01SE	06/14/19
19F0425-07	UST-01 BN	06/14/19
19F0425-08	UST-01 BS	06/14/19
BF90782-BLK1	Blank	06/14/19



BF90782-BS1

LCS

06/14/19





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 BF90565 - EPA 5035A

Blank (BF90565-BLK1)

Prepared & Analyzed: 06/14/2019

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: SURR: 1,2-Dichloroethane-d4</i>	50.9		ug/L	50.0		102	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	51.6		"	50.0		103	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	51.6		"	50.0		103	76-130				

LCS (BF90565-BS1)

Prepared & Analyzed: 06/14/2019

1,2,4-Trimethylbenzene	48		ug/L	50.0		96.1	84-125				
1,3,5-Trimethylbenzene	49		"	50.0		97.2	82-126				
Benzene	48		"	50.0		95.3	77-127				
Ethyl Benzene	48		"	50.0		96.6	84-125				
Isopropylbenzene	48		"	50.0		96.9	81-127				
Methyl tert-butyl ether (MTBE)	50		"	50.0		99.8	74-131				
Naphthalene	54		"	50.0		108	86-141				
n-Butylbenzene	47		"	50.0		94.9	80-130				
n-Propylbenzene	48		"	50.0		96.1	74-136				
o-Xylene	48		"	50.0		95.5	83-123				
p- & m- Xylenes	96		"	100		96.1	82-128				
p-Isopropyltoluene	50		"	50.0		100	85-125				
sec-Butylbenzene	51		"	50.0		103	83-125				
tert-Butylbenzene	48		"	50.0		96.3	80-127				
Toluene	47		"	50.0		93.5	85-121				
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	50.3		"	50.0		101	77-125				
<i>Surrogate: SURR: Toluene-d8</i>	50.9		"	50.0		102	85-120				
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	50.9		"	50.0		102	76-130				



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 BF90565 - EPA 5035A

LCS Dup (BF90565-BSD1)

Prepared & Analyzed: 06/14/2019

1,2,4-Trimethylbenzene	56		ug/L	50.0		112		84-125			15.4	30	
1,3,5-Trimethylbenzene	56		"	50.0		113		82-126			14.9	30	
Benzene	56		"	50.0		111		77-127			15.2	30	
Ethyl Benzene	57		"	50.0		113		84-125			16.0	30	
Isopropylbenzene	56		"	50.0		112		81-127			14.9	30	
Methyl tert-butyl ether (MTBE)	58		"	50.0		116		74-131			14.8	30	
Naphthalene	62		"	50.0		124		86-141			13.8	30	
n-Butylbenzene	55		"	50.0		110		80-130			15.1	30	
n-Propylbenzene	56		"	50.0		112		74-136			15.2	30	
o-Xylene	56		"	50.0		112		83-123			16.1	30	
p- & m- Xylenes	110		"	100		112		82-128			15.4	30	
p-Isopropyltoluene	59		"	50.0		118		85-125			16.0	30	
sec-Butylbenzene	60		"	50.0		120		83-125			15.1	30	
tert-Butylbenzene	56		"	50.0		113		80-127			15.6	30	
Toluene	55		"	50.0		109		85-121			15.5	30	
<i>Surrogate: SURR: 1,2-Dichloroethane-d4</i>	<i>50.5</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>77-125</i>					
<i>Surrogate: SURR: Toluene-d8</i>	<i>50.3</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>85-120</i>					
<i>Surrogate: SURR: p-Bromofluorobenzene</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>		<i>76-130</i>					



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

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

Batch BF90782 - EPA 3550C

Blank (BF90782-BLK1)

Prepared: 06/14/2019 Analyzed: 06/17/2019

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	"								

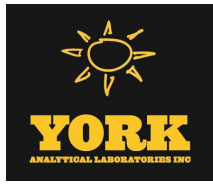
<i>Surrogate: SURR: Nitrobenzene-d5</i>	540		"	833		64.2	22-108				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	530		"	833		63.2	21-113				
<i>Surrogate: SURR: Terphenyl-d14</i>	610		"	833		73.4	24-116				

LCS (BF90782-BS1)

Prepared: 06/14/2019 Analyzed: 06/17/2019

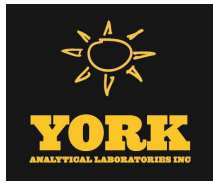
Acenaphthene	500	42	ug/kg wet	833		60.5	17-124				
Acenaphthylene	520	42	"	833		61.9	16-124				
Anthracene	520	42	"	833		62.6	24-124				
Benzo(a)anthracene	520	42	"	833		62.5	25-134				
Benzo(a)pyrene	550	42	"	833		65.7	29-144				
Benzo(b)fluoranthene	530	42	"	833		63.9	20-151				
Benzo(g,h,i)perylene	550	42	"	833		66.2	10-153				
Benzo(k)fluoranthene	510	42	"	833		61.6	10-148				
Chrysene	510	42	"	833		61.4	24-116				
Dibenzo(a,h)anthracene	550	42	"	833		66.1	17-147				
Fluoranthene	530	42	"	833		63.6	36-125				
Fluorene	560	42	"	833		67.4	16-130				
Indeno(1,2,3-cd)pyrene	560	42	"	833		67.7	10-155				
Naphthalene	580	42	"	833		69.2	20-121				
Phenanthrene	540	42	"	833		64.7	24-123				
Pyrene	580	42	"	833		69.6	24-132				

<i>Surrogate: SURR: Nitrobenzene-d5</i>	500		"	833		59.5	22-108				
<i>Surrogate: SURR: 2-Fluorobiphenyl</i>	490		"	833		58.6	21-113				
<i>Surrogate: SURR: Terphenyl-d14</i>	600		"	833		71.5	24-116				



Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
19F0425-01	UST-01 N	40mL Vial with Stir Bar-Cool 4° C
19F0425-02	UST-01 S	40mL Vial with Stir Bar-Cool 4° C
19F0425-03	UST-01 NW	40mL Vial with Stir Bar-Cool 4° C
19F0425-04	UST-01 NE	40mL Vial with Stir Bar-Cool 4° C
19F0425-05	UST-01 SW	40mL Vial with Stir Bar-Cool 4° C
19F0425-06	UST-01SE	40mL Vial with Stir Bar-Cool 4° C
19F0425-07	UST-01 BN	40mL Vial with Stir Bar-Cool 4° C
19F0425-08	UST-01 BS	40mL Vial with Stir Bar-Cool 4° C



Sample and Data Qualifiers Relating to This Work Order

- 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.

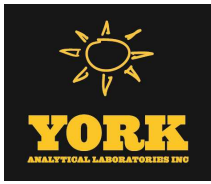
If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For 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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Field Chain-of-Custody Record

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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. 19F0425

YOUR INFORMATION		Report to:		Invoice To:		Your Project ID		Turn-Around Time		Report/Deliverable Type	
Company: WCD Group	<input checked="" type="checkbox"/> SAME	Name: <input checked="" type="checkbox"/> SAME	Company: PQ18052	Metals: RUSH-Same Day	Full Lists: RUSH-Same Day	Summary Report	<input checked="" type="checkbox"/> X	Metals: RUSH-Next Day	Full Lists: RUSH-Next Day	QA Report	
Address: 24 Davis Avenue		Company: Poughkeepsie, NY 12603		Metals: RUSH-Two Day	Full Lists: RUSH-Two Day	CT RCP		Metals: RUSH-Three Day	Full Lists: RUSH-Three Day	CT RCP	
Phone: 845-452-1658		Address: Poughkeepsie, NY 12603		Metals: RUSH-Four Day	Full Lists: RUSH-Four Day	CT RCP DOA/DUE Pkg		Metals: Standard (5-7day)	Full Lists: Standard (5-7day)	NY ASP A Package	
Contact: Erick Salazar		E-mail: esalazar@wcdgroup.com		Volatiles: 8260 full	Matrix: 8260 full	NY ASP B Package		Metals: NJDEP Reduced Deliv	Full Lists: NJDEP Reduced Deliv	NYDEP Reduced Deliv	
E-mail: esalazar@wcdgroup.com				Volatiles: 624	Matrix: 624			Metals: Excel	Full Lists: Excel	Excel	
<p>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.</p> <p>Matrix Codes: S - soil Other - specify (oil, etc) WW - wastewater GW - groundwater DW - drinking water Air-A - ambient air Air-SV - soil vapor</p> <p>Samples Collected/Authorized By (Signature): <i>Erick Salazar</i> Name (printed): ERICK SALAZAR</p>											
<p>Analysis Requested (List above includes common analysis): VOCs (8260) CP-51 List; SVOCs (8270) CP-51 List</p>											
Sample Identification	Date+Time Sampled	Matrix	Container Description								
UST-01 N	6/11/2019	S	1x VOA kit; 1x 4oz jar								
UST-01 S											
UST-01 NW											
UST-01 NE											
UST-01 SW											
UST-01SE											
UST-01 BN											
UST-01 BS											
<p>Preservation (check all applicable): 4°C <input type="checkbox"/> Frozen <input type="checkbox"/> HCl <input type="checkbox"/> MeOH <input type="checkbox"/> HNO₃ <input type="checkbox"/> H₂SO₄ <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> Ascorbic Acid <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Special Instructions: Field Filtered <input type="checkbox"/> Lab to Filter <input type="checkbox"/></p>											
<p>Comments: Signature: <i>Antonia Orsone</i> Date/Time: 6/12/19 15:12 Samples Relinquished By: <i>Antonia Orsone</i> Date/Time: 6-12-19 10:35 Samples Relinquished By: <i>Antonia Orsone</i> Date/Time: 6-12-19 15:12 Samples Received in LAB by: <i>Antonia Orsone</i> Date/Time: 6-12-19 15:12 Temperature on Receipt: 2.5 °C</p>											