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Phase II Environmental Site Assessment

Proposed 119 Oregon Road Multifamily Development Site

Block 1, Lot 12
Town of Cortlandt
Westchester County, New York

Ms. Jennifer Baus
Senior Vice President Design and Entitlements
NRP HOLDINGS LLC
1228 Euclid Avenue 4th Floor
Cleveland, Ohio 44115

August 15, 2021
FPA No. 16875.002

FRENCH & PARRELLO ASSOCIATES

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August 15, 2021
VIA EMAIL (MKoenig@nrpgroup.com) ONLY

Ms. Jennifer Baus
Senior Vice President Design and Entitlements
NRP HOLDINGS LLC
1228 Euclid Avenue 4th Floor
Cleveland, Ohio 44115

Re: Phase II Environmental Site Assessment Report
Proposed 119 Oregon Road Multifamily Development Site
Block 1, Lot 12
Town of Cortlandt, Westchester County, New York
FPA No.16875.002

Dear Ms. Baus:

French & Parrello Associates (FPA) conducted a Phase II Environmental Site Assessment (ESA) for your pre-acquisition environmental due diligence of the above referenced Site, located at 119 Oregon Road, Block 1, Lot 12, Cortlandt, Westchester County, New York, identified by NRP Holdings LLC (NRP) as the Proposed 119 Oregon Road Multifamily Development Site (Site or Subject Property). FPA conducted the Phase II ESA in accordance with the ASTM International (ASTM) E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment.

FPA conducted a Phase I ESA in accordance with the ASTM E1527-13 Standard Practice for Environmental Assessments: Phase I Environmental Site Assessment (ESA) Process that had identified three recognized environmental conditions (RECs) at the Site: REC-1: 500-gallon No. 2 Heating Oil Underground Storage Tank (UST) Still in Use, REC-2: 1,000-gallon No. 2 Heating Oil UST Still in Use, and REC-3: Random Dumping. The Phase I ESA also identified one Historical REC (HREC) at the site; HREC-1: Former 1,000-gallon No. 2 Heating Oil UST. The three RECs and one HREC warranted further assessment.

FPA retained a subcontractor, Accurate Tank Testing LLC (ATT), to perform integrity tests on the REC-1 and REC-2 USTs and to assist FPA with intrusive activities by advancing soil borings at the RECs and HREC locations for FPA to collect soil and groundwater samples for laboratory analysis.

FPA presents the following findings:

- **Leak Detection Integrity Tests**
  - ATT performed leak detection integrity tests on both USTs, REC-1 and REC-2, and determined that both systems failed the acoustic precision evaluation test. ATT's diagnostic report indicated that both the UST systems have a vacuum loss, implying that integrity of the USTs and/or associated piping is compromised.

- **REC-1: 500-gallon No. 2 Heating Oil Underground Storage Tank Still in Use**
  - This UST is beneath the ballroom on the west side of the main building and inaccessible by drilling equipment. FPA's drilling subcontractor advanced one boring outside of the building foundation approximately 20' north of the UST which was the closest location allowed by Site logistics. ATT advanced the boring to a depth of 12.5' below surface grade (bsg). FPA collected subsurface soil sample SI-1 from the 12.0'-12.5' bsg depth interval for laboratory analysis. ATT then installed a temporary well point (TWP) identified as TWP-SI-1 into the boring to collect groundwater sample TWP-SI-1 for laboratory analysis.
  - Targeted compounds were not detected in soil sample SI-1. Groundwater sample TWP-SI-1 analytical results indicated that targeted compounds were either not detected or below the Ambient Water Quality Standards (AWQS) and Guidance Values.
  - Post excavation confirmatory soil sampling will be necessary when the UST is removed to identify if petroleum hydrocarbons have migrated into and contaminated the surrounding soils based upon the failed integrity test and in consideration of the UST's age.

- **REC-2: 1,000-gallon No. 2 Heating Oil Underground Storage Tank Still in Use**
  - This UST is beneath the ballroom on the east side of the main building and inaccessible by drilling equipment. ATT advanced one boring outside of the building foundation approximately 35' northwest of the UST which was the closest location allowed by Site logistics. ATT advanced the boring to a depth of 14.5' bsg, Visual and olfactory observations indicated a strong presence of petroleum hydrocarbons just above the encountered water table. FPA collected subsurface soil sample SI-2 from the 14.0'-14.5' bsg depth interval for laboratory analysis. ATT then installed TWP-SI-2 into the boring to collect groundwater sample TWP-SI-2 for laboratory analysis.
  - Total xylenes were detected in soil sample SI-2 above the New York Codes, Rules and Regulations (NYCRR) Unrestricted Use Soil Cleanup Objectives (UUSCOs) Part 375-6.8(a) but not the Restricted Use Soil Cleanup Objective (SCO) Residential Public Health Standard (RPHS). 2-methylnapthalene was detected above the Restricted Use SCO RPHS. There is no UUSCO for 2-methylnapthalene.

- Groundwater sample TWP-SI-2 analytical results detected benzene, toluene, ethylbenzene, isopropyl benzene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, and chrysene above the AWQS.
- Additional investigation of soil and groundwater in the vicinity of REC-2 is warranted.

➢ **REC-3: Random Dumping**

- One soil boring was advanced adjacent to the dumped material biased to the lower elevation of the pile to determine if hazardous substances had leached from stormwater runoff. FPA collected subsurface soil sample SI-4 from the 6.0'-6.5' bsg depth interval for laboratory analysis.
- The soil sample was collected just below the encountered fill material in the soil column. Targeted compounds were not detected in soil sample SI-4.
- No additional investigation is warranted relative to the Random Dumping REC-3.

➢ **HREC-1: Former 1,000-gallon No. 2 Heating Oil UST**

- One soil boring was advanced near the approximate location of one former 1,000-gallon No. 2 heating oil UST. FPA collected soil sample SI-3 from the 14.0'-14.5' bsg depth interval, just below backfill material consisting of bank run sand, minor amounts of brick and slag fragments, and overburden soils.
- Targeted compounds were either not detected or detected below the most stringent NYCRR New York State Department of Environmental Conservation (NYSDEC) Standards in soil sample SI-3.
- Boring refusal did not allow for a TWP to be installed deep enough at this location.
- No additional investigation is warranted relative to this HREC.

The Phase II ESA scope of work also included pre-characterizing soil in certain areas of the Subject Project where the proposed development could result in excavation of excess soil that would need to be exported from the Site. The limited results indicated excess soil generated from the locations and depths sampled would be suitable for reuse provided no other analyses are required by the receiving facility.

We thank you for the opportunity to provide these environmental services. If you have any questions, please do not hesitate to contact the undersigned at 732-312-9800.

Sincerely,

FRENCH & PARRELLO ASSOCIATES

Neil P. Jiorle, LSRP
Senior Project Manager
Environmental Services

TABLE OF CONTENTS

DRAWINGS

TABLES

APPENDICES

1.0 INTRODUCTION

The NRP Group LLC (NRP) retained French & Parrello Associates (FPA) to conduct a Phase II Environmental Site Assessment (ESA) at the Subject Property identified as the Proposed 119 Oregon Road Multifamily Development Site, currently known as The Mansion at Colonial Terrace, 119 Oregon Road, Block 1, Lot 12, Town of Cortlandt, Westchester County, New York (hereafter referred to as the Site or Subject Property) as part of their environmental due diligence. The Subject Property location is presented as Drawing No. 1, United States Geological Survey (USGS) Topographic Map, Drawing No. 2, Tax Map and Drawing No. 3, Site Layout Map.

FPA had previously conducted a Phase I ESA in January of 2021 and identified three Recognized Environmental Conditions (RECs) and one Historic Recognized Environmental Condition (HREC) at the Site. FPA conducted the Phase II ESA in accordance with the ASTM E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment.

2.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT ACTIVITIES

The Phase II ESA included the:

- advancement of soil borings within the Subject Property
- collection of soil samples for laboratory analysis
- comparison of the soil sample analytical results to the applicable New York Codes, Rules and Regulations (NYCRR) and New York State Department of Environmental Conservation (NYSDEC) Remedial Program Soil Cleanup Objectives
- installation of temporary well points (TWPs) in the soil borings within the Subject Property
- collection of groundwater samples from the TWPs for laboratory analysis
- comparison of the groundwater samples to the applicable NYSDEC Class GA water quality standards (GA = Source of Drinking Water [fresh groundwater])
- the preparation of this Phase II ESA Report

The Phase II ESA scope of work also included collecting soil samples for laboratory analysis to "pre-characterize" soil in certain areas of the Subject Project where the proposed development could result in excess soil that would need to be excavated and exported from the Site. NRP wanted this pre-characterization of this soil to determine the concentrations of certain naturally occurring metals that are typically evaluated for soil reuse approvals. These analyses included the US Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) eight metals: arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. FPA directed the laboratory to perform the analysis in accordance with the Toxicity Characteristic Leaching Procedure (TCLP), EPA Method 1311, and also for total metals concentrations.

The following sections outline the Phase II ESA activities performed, present analytical results, and present our findings.

2.1 UST Integrity Diagnostic Testing

FPA's subcontractor, Accurate Tank Testing LLC (ATT), conducted a leak detection integrity test of the two USTs located at the Subject Property on March 12, 2021. The evaluation was completed using a vacuum calculation mechanism known as the "EZY3 Locator Plus". The vacuum trend analysis determined that both UST systems failed due to vacuum loss likely attributable to a leak either within the USTs or along the associated piping (Appendix A).

2.2 Site Assessment of Soils

ATT, on March 12, 2021, advanced one soil boring at each REC/HREC location (Appendix B) and an additional three soil borings for pre-characterization of excess fill material that will be generated from the proposed improvements to the Site. ATT utilized a small, track-mounted, Geoprobe® mobile direct-push drill rig to advance the borings. The four-foot long Geoprobe® metal drilling cores were lined with acetate, removable and disposable, soil retrieval sleeves. The sleeves recovered from the borings were opened and scanned with a properly calibrated photo ionization detector (PID) field instrument for the presence of volatile organic vapors and evaluated for the physical evidence of impacts (i.e., unusual odor, discoloration, staining, physical

appearance of hydrocarbon-like sheen, etc.). The locations of some soil borings were adjusted from the Phase I ESA REC Location Plan due to field conditions and accessibility of the track-mounted Geoprobe® through wooded or confined areas.

The sampling of soil protocol included the collection of one soil sample from each boring; from a six-inch interval where the highest physical evidence of impact, highest field screened PID readings or if the first two cases were not encountered then the sample was collected just above the groundwater table. Soil samples collected for the pre-characterization of soil within the proposed Site improvements included the composite collection of soil from 2' intervals to a maximum depth of 10' below surface grade (bsg). The borings advanced at REC-1 and HREC-1 were also utilized for the pre-characterization sampling event.

Soil boring SI-1 was advanced adjacent to the western ballroom area of the main building. Soil sample SI-1 was collected from 12.0'-12.5' bsg interval. Soil sample SC-1 collected from this boring was a composite sample collected from 0.0'-10.0' bsg at 2' intervals. No elevated PID readings were detected, and no visual or olfactory evidence of environmental impact was observed. The depth to water at boring SI-1 was 14.55' bsg.

Soil boring SI-2 was advanced adjacent to the eastern ballroom area of the main building. Soil sample SI-2 was collected from 14'-14.5' bsg interval. Elevated PID readings were detected and olfactory evidence of environmental impact was observed beginning at approximately 8.5' bsg and continued into the water table which was encountered at 9.25' bsg. The elevated PID readings and physical evidence of impact continued into the water table to a depth of 15.5' bsg.

Soil boring SI-3 was advanced to the southeast of the main building. Soil sample SI-3 was collected from 14.0'-14.5' bsg interval. No elevated PID readings were detected, though evidence of fill material was encountered at 13'-14' bsg and therefore the soil sample SI-3 was collected just beneath the nonnative material we believe the former UST grave was backfilled with. Soil sample SC-2 collected from this boring was a composite sample collected from 0.0'-10.0' bsg at

2’ intervals. The depth to water interface at boring SI-3 was not encountered due to refusal at 17’ bsg.

Soil boring SI-4 was advanced on the southeastern portion of the Subject Property adjacent to the REC-3 Random Dumping area. Soil sample SI-4 was collected from the 6.0’-6.5’ bsg interval, just below where fill material consisting of red brick and asphalt chunks was observed. No elevated PID readings were detected, and no olfactory evidence of environmental impact was observed. The depth to water interface at boring SI-4 was not encountered. The boring was terminated at 12’ bsg.

The remaining soil samples (SC-3, SC-4, and SC-5) were composite samples collected from depths of 0’-10’ bsg and collected from a six-inch aliquot portion every two feet through the soil column. The soil was then blended and combined in laboratory supplied glassware.

The samples were transferred directly into laboratory supplied glassware, preserved in a temperature-controlled environment (4°C), until they were transported to a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) laboratory certified for the requested analytical methods and under complete chain-of-custody documentation. Soil samples SI-1, SI-2, and SI-3 were analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), TCL polycyclic aromatic hydrocarbons (PAH), and total petroleum hydrocarbons (TPHC) diesel range organics (DRO). Sample SI-4 was analyzed for TCL VOCs and TPHC DRO. The pre-characterization soil samples (SC-1 through SC-5) were analyzed for Target Analyte List (TAL) metals, and TCLP metals. Refer to Drawing No. 4 for the soil sample locations; refer to Table No. 1 for a field sampling summary.

2.3 Site Assessment of Groundwater

On March 12, 2021, during the installation of soil borings, FPA also oversaw the installation of TWPs within borings SI-1 and SI-2. The TWPs were constructed of 1-inch diameter riser with 8 feet of 1-inch diameter slotted screen. After installation, the TWPs were then purged with a

peristaltic pump until turbidity within the purge water decreased from initial purge levels and stabilized. One groundwater sample was collected from each installed TWP.

TWP-SI-1 was installed within the SI-1 boring. The depth to water elevation was 14.55' bsg. TWP-SI-2 was installed within SI-2. The depth to water elevation was 9.25' bsg with a petroleum hydrocarbon odor emanating from the TWP and a PID reading of 130 parts per million (ppm).

The samples were transferred directly into laboratory supplied glassware, preserved in a temperature-controlled environment (4°C), until they were transported to a NYSDOH-ELAP laboratory certified for the requested analytical methods, and under complete chain-of-custody documentation. Groundwater samples TWP-SI-1 and TWP-SI-2 were analyzed for VOCs and PAHs. Refer to Drawing No. 4 for the groundwater sample locations; refer to Table No. 1 for a for a field sampling summary.

2.4 Laboratory Quality Assurance/Quality Control

The samples were submitted to Integrated Analytical Laboratories (IAL), NYSDOH-ELAP Certification No. 11402, for analysis. FPA reviewed IAL's Quality Assurance/Quality Control (QA/QC) information to evaluate the overall data package.

The soil and aqueous VOC samples were received and analyzed within holding times and met the QA/QC criteria for calibration curves, internal standards recoveries, surrogate percent recoveries, Laboratory Control Samples (LCS) percent recoveries, and the Matrix Spike (MS)/Matrix Spike Duplicates (MSD) relative percent differences (RPD) and the percent recoveries. The VOC groundwater samples MS/MSDs were not analyzed due to insufficient sample volume.

The soil PAH samples were received, extracted, and analyzed within holding times and met the QA/QC criteria for calibration curves, internal standards recoveries, surrogate percent recoveries, LCS percent recoveries, and the MS/MSD RPD and percent recoveries.

The groundwater PAH samples were received, extracted, and analyzed by EPA Method 8270E Selective Ion Monitoring SIM) within holding times and met the QA/QC criteria for calibration curves, internal standards recoveries, surrogate percent recoveries, LCS percent recoveries, and the MS/MSD RPD and percent recoveries. Surrogate recoveries did not meet QA/QC criteria due to sediment levels of approximately 5% in the samples which resulted in dilutions by a factor of 100.

The soil TPHC DRO samples were received, extracted, and analyzed within holding times and met the QA/QC criteria for calibration curves, internal standards recoveries, surrogate percent recoveries, LCS percent recoveries, and the MS/MSD RPD and percent recoveries.

The soil samples analyzed for total metals were received, digested, and analyzed within holding times and met the QA/QC criteria for calibration curves, internal standards recoveries, surrogate percent recoveries, LCS percent recoveries, MS RPD and percent recoveries, and serial dilutions.

The soil samples analyzed for TCLP metals were received, leached, digested, and analyzed within holding times and met the QA/QC criteria for calibration curves, internal standards recoveries, surrogate percent recoveries, LCS percent recoveries, MS RPD and percent recoveries, and serial dilutions.

FPA reviewed the data package and has determined the data to be usable for this project.

2.5 Summary of Impacted Media

2.5.1 Soil Sample Results

Targeted compounds were either not detected or detected below the NYCRR Part 375 Unrestricted Use Soil Cleanup Objectives (UUSCOs) in samples SI-1, SI-3, and SI-4 according to the analytical results. Total xylenes were detected in soil sample SI-2 above the UUSCOs but not the Restricted Use Soil Cleanup Objective (SCO) Residential Public Health Standard (RPHS). Samples SI-1, SI-3, and SI-4 were non-detect for TPHC DRO. Sample SI-2 had a TPHC DRO

concentration of 3,210 milligrams per kilogram (mg/kg). There is no UUSCO for TPHC DRO. 2-methylnapthalene was detected above the Restricted Use SCO RPHS. There is no UUSCO for 2-methylnapthalene. All soil pre-characterization samples (SC-1, SC-2, SC-3, SC-4, and SC-5) were either not detected or detect below the regulatory threshold for TAL metals and TCLP metals. Refer to Table No. 2 for a summary of the soil sample analytical results; refer to Table No. 4 for the soil characterization sample analytical results summary; refer to Appendix C for the soil sample laboratory analytical results. Drawing No. 5 presents the soil sample locations with a summary analytical results chem-box.

2.5.2 Groundwater Sample Results

Groundwater sample TWP-SI-2 analytical results detected benzene, toluene, ethylbenzene, isopropyl benzene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, and chrysene at concentrations exceeding the Ambient Water Quality Standards (AWQS). The NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 AWQS for Class GA (sources of drinking water) generally correspond to the EPA Maximum Contaminant Levels (MCLs) for drinking water quality. Refer to Table No. 3 for a summary of groundwater sample analytical results; refer to Appendix C for the groundwater sample laboratory analytical results.

Groundwater sample TWP-SI-1 analytical results indicated that targeted compounds were either not detected or below the AWQS for Class GA (sources of drinking water).

Drawing No. 6 presents the groundwater sample locations with a summary analytical results chem-box.

2.6 Significant Event Variation

No significant events or seasonal variations have influenced the sampling procedures or analytical results during the completion of this Phase II ESA.

3.0 PHASE II ENVIRONMENTAL SITE ASSESSMENT FINDINGS

NRP retained FPA to conduct a Phase II ESA at the Subject Property identified as the Proposed 119 Oregon Road Multifamily Development Site, currently known as The Mansion at Colonial Terrace, 119 Oregon Road, Block 1, Lot 12, Town of Cortlandt, Westchester County, New York. FPA conducted the Phase II ESA in accordance with the ASTM E1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment.

FPA presents the following findings:

- **REC-1: 500-gallon No. 2 Heating Oil Underground Storage Tank Still in Use**
    - ATT performed a leak detection integrity test on REC-1 and determined that the system failed the acoustic precision evaluation test. ATT's diagnostic report indicated that the UST system had a vacuum loss, implying that integrity of the UST and/or associated piping is compromised.
    - FPA's drilling subcontractor advanced one soil boring, SI-1, to a depth of 20' bsg adjacent the building nearest to the UST which is located under the ballroom on the west side of the main building. FPA collected one subsurface soil sample, SI-1, for laboratory analysis. The drilling subcontractor then installed a TWP and FPA collected one groundwater sample, TWP-SI-1, for laboratory analysis.
    - Targeted compounds were not detected in soil sample SI-1.
    - Targeted compounds were either not detected or below the AWQS in groundwater sample TWP-SI-1.
    - Post excavation confirmatory soil sampling will be necessary when the UST is removed to identify if petroleum hydrocarbons have migrated into and contaminated the surrounding soils based upon the failed integrity test and in consideration of the UST's age.
- **REC-2: 1,000-gallon No. 2 Heating Oil Underground Storage Tank Still in Use**
    - ATT performed a leak detection integrity test on REC-2 and determined that the system failed the acoustic precision evaluation test. ATT's diagnostic report

indicated that the UST system had a vacuum loss, implying that integrity of the UST and/or associated piping is compromised.

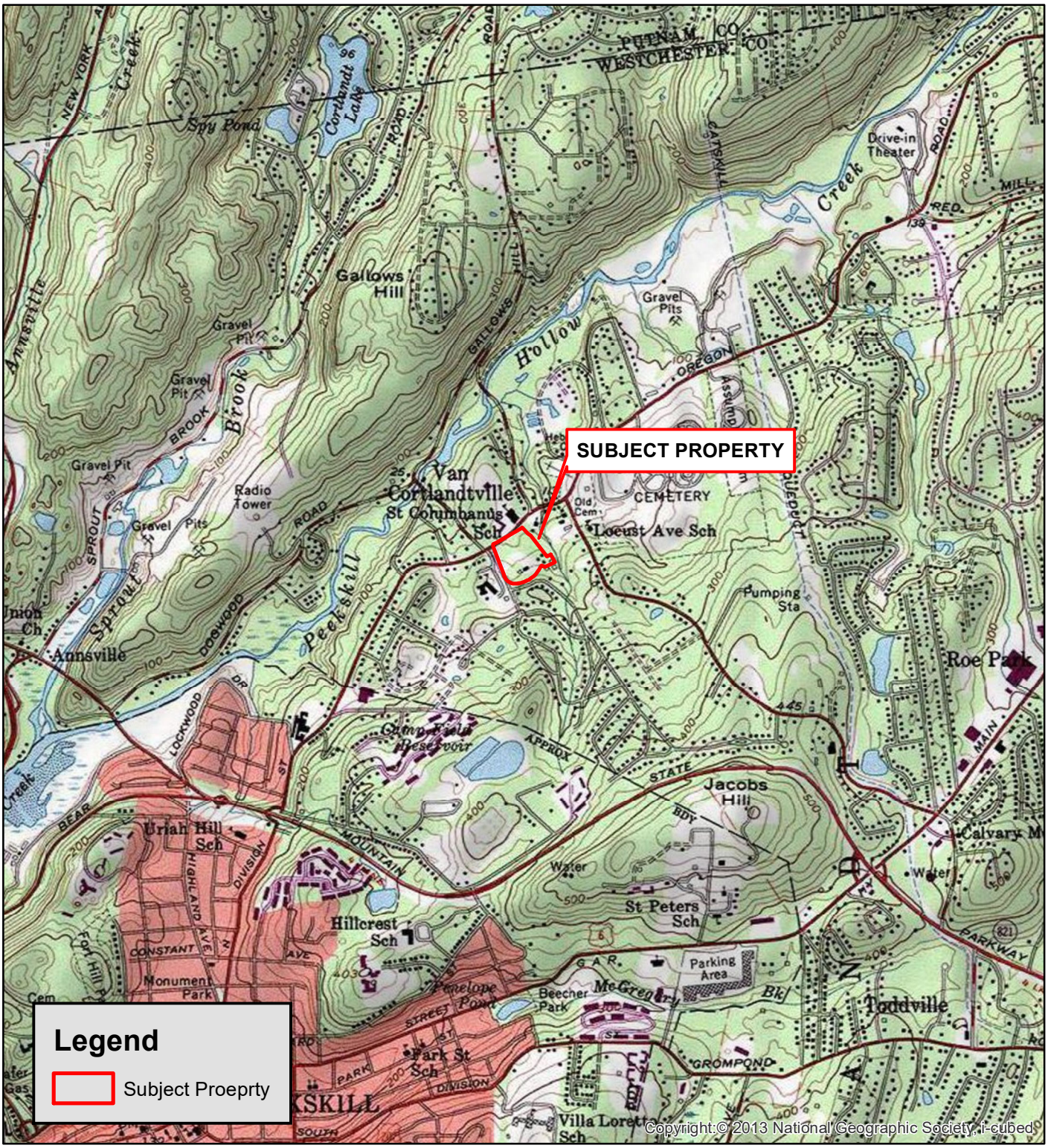
- FPA's drilling subcontractor advanced one boring, SI-2, to a depth of 20' bsg outside of the building nearest the UST which is located under the ballroom on the east side of the main building. PID readings, visual, and olfactory observations indicated the presence of petroleum hydrocarbons beginning at approximately 8.5' bsg and continued into the water table which was encountered at 9.25' bsg. The elevated PID readings and physical evidence of impact continued into the water table to a depth of 15.5' bsg. FPA collected one subsurface soil sample, SI-2, for laboratory analysis. The drilling subcontractor then installed a TWP and FPA collected one groundwater sample, TWP-SI-2, for laboratory analysis.
- Total xylenes were detected in soil sample SI-2 above the UUSCOs but not the Restricted Use SCOs RPHS. 2-methylnapthalene was detected above the Restricted Use SCO RPHS. There is no UUSCO for 2-methylnapthalene. Samples SI-1, SI-3, and SI-4 were non-detect for TPHC DRO. Sample SI-2 had a TPHC DRO concentration of 3,210 mg/kg. There is no UUSCO for TPHC DRO.
- Groundwater sample TWP-SI-2 analytical results detected benzene, toluene, ethylbenzene, isopropyl benzene, fluorene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, and chrysene above the AWQS for Class GA (fresh groundwater).
- Additional investigation of soil and groundwater in the vicinity of REC-2 is warranted.

- **REC-3: Random Dumping**
  - FPA's drilling subcontractor advanced one boring, SI-4, adjacent to the dumped material and FPA collected one soil sample, SI-4, just below the encountered fill material in the soil column at the 6.0'-6.5' depth interval for laboratory analysis.
  - Targeted compounds were not detected in soil sample SI-4.
  - No additional investigation is warranted relative to the Random Dumping REC.

- **HREC-1: Former 1,000-gallon No. 2 Heating Oil UST**
    - FPA's drilling subcontractor advanced one boring, SI-3, near the approximate location of one former 1,000-gallon No. 2 heating oil UST and FPA collected soil sample SI-3 from the 14.0'-14.5' bsg depth interval, just below backfill material consisting of bank run sand, minor amounts of brick and slag fragments, and overburden soils. Boring refusal did not allow for a TWP to be installed deep enough at this location.
    - Targeted compounds were either not detected or detected below the most stringent NYSDEC Standards in soil sample SI-3.
    - No additional investigation is warranted relative to this HREC.

The Phase II ESA scope of work also included pre-characterizing soil in certain areas of the Subject Project where the proposed development could result in excess soil that would need to be excavated and exported from the Site. The analytical results for the five pre-characterization samples, SC-1, SC-2, SC-3, SC-4, and SC-5, were either not detected or detect below the regulatory threshold for TAL metals and TCLP metals. These limited results indicate excess soil generated from the locations and depths sampled would be suitable for reuse on residential or commercial/industrial sites provided no other analyses are required by the receiving facility.

Drawings



NOTE: Quadrangle information located at https://gis.ny.gov/gisdata/quads/drg24/ee47.htm.

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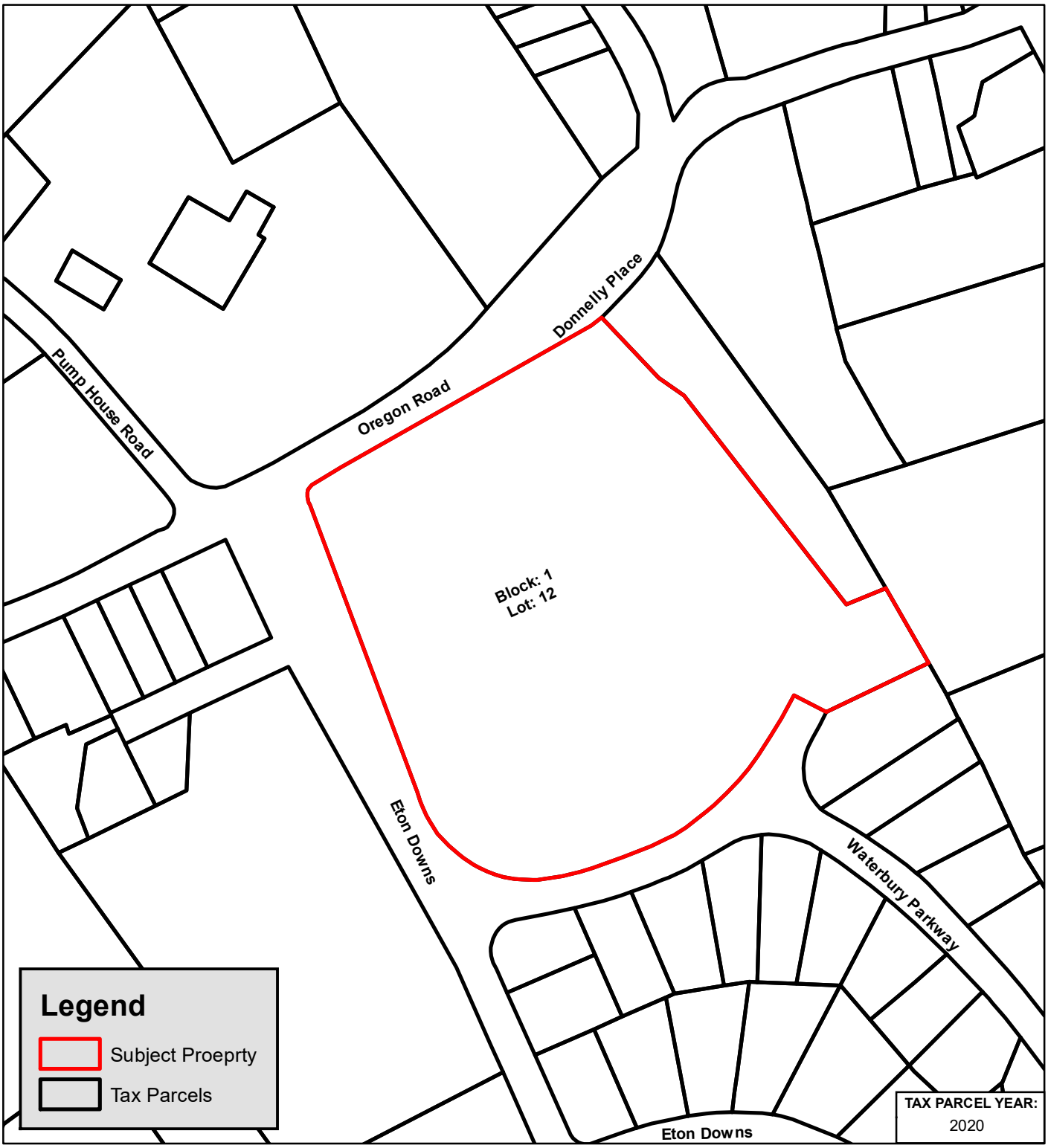
119 OREGON ROAD MULTIFAMILY DEVELOPMENT

119 OREGON ROAD,TOWN OF CORTLANDT
WEST CHESTER COUNTY, NEW YORK

TOPOGRAPHIC MAP

PEEKSKILL QUADRANGLE

SCALE:	CONTOUR INTERVAL	PHOTO REVISED	DRAWING #
1 " = 2,000 '	10'	1991	1
DATE:	DRAWN BY:	PROJECT NUMBER:	
12/14/2020	N.L.	16875.001	



NOTE:THE TAX PARCEL BOUNDARIES SHOWN ARE NOT SURVEYED. THE TAX PARCELS PROVIDED BY THE COUNTY OF WESTCHESTER THROUGH THE WESTCHESTER COUNTY GIS WEBSITE AT: https://gis.westchestergov.com/search?q=cortlandt%20township

FRENCH & PARRELLO ASSOCIATES
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119 OREGON ROAD MULTIFAMILY DEVELOPMENT

119 OREGON ROAD, TOWN OF CORTLANDT
WESTCHESTER COUNTY, NEW YORK

TAX PARCEL MAP

SCALE:	BLOCK:	LOT:	DRAWING #
1 " = 200 '	1	12	2
DATE:	**DRAWN BY:**	**PROJECT NUMBER:**	
12/08/2020	N.L.	16875.001	

NOTE:THE TAX PARCEL BOUNDARIES SHOWN ARE NOT SURVEYED. THE TAX PARCELS PROVIDED BY THE COUNTY OF WESTCHESTER THROUGH THE WESTCHESTER COUNTY GIS WEBSITE AT: https://gis.westchestergov.com/search?q=cortlandt%20township

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119 OREGON ROAD MULTIFAMILY DEVELOPMENT

119 OREGON ROAD, TOWN OF CORTLANDT
WESTCHESTER COUNTY, NEW YORK

SITE LAYOUT MAP

SCALE:	BLOCK:	LOT:	DRAWING #
1 " = 200 '	1	12	3
DATE:	**DRAWN BY:**	**PROJECT NUMBER:**	
12/08/2020	N.L.	16875.001	

Legend

- SOIL SAMPLES
- TEMPORARY WELL POINT

Recognized Environmental Conditions

- REC-1: 500-gallon No. 2 Heating Oil UST
- REC-2: 1000-gallon No. 2 Heating Oil UST
- REC-3: Random Dumping
- HREC-1: Former 1000-gallon No. 2 Heating Oil UST
- Subject Proeprty
- Tax Parcels

0 40
Feet

N

FRENCH & PARRELLO ASSOCIATES
1800 Route 34, Suite 101 ▪ Wall, NJ ▪ 07719 ▪ 732-312-9800

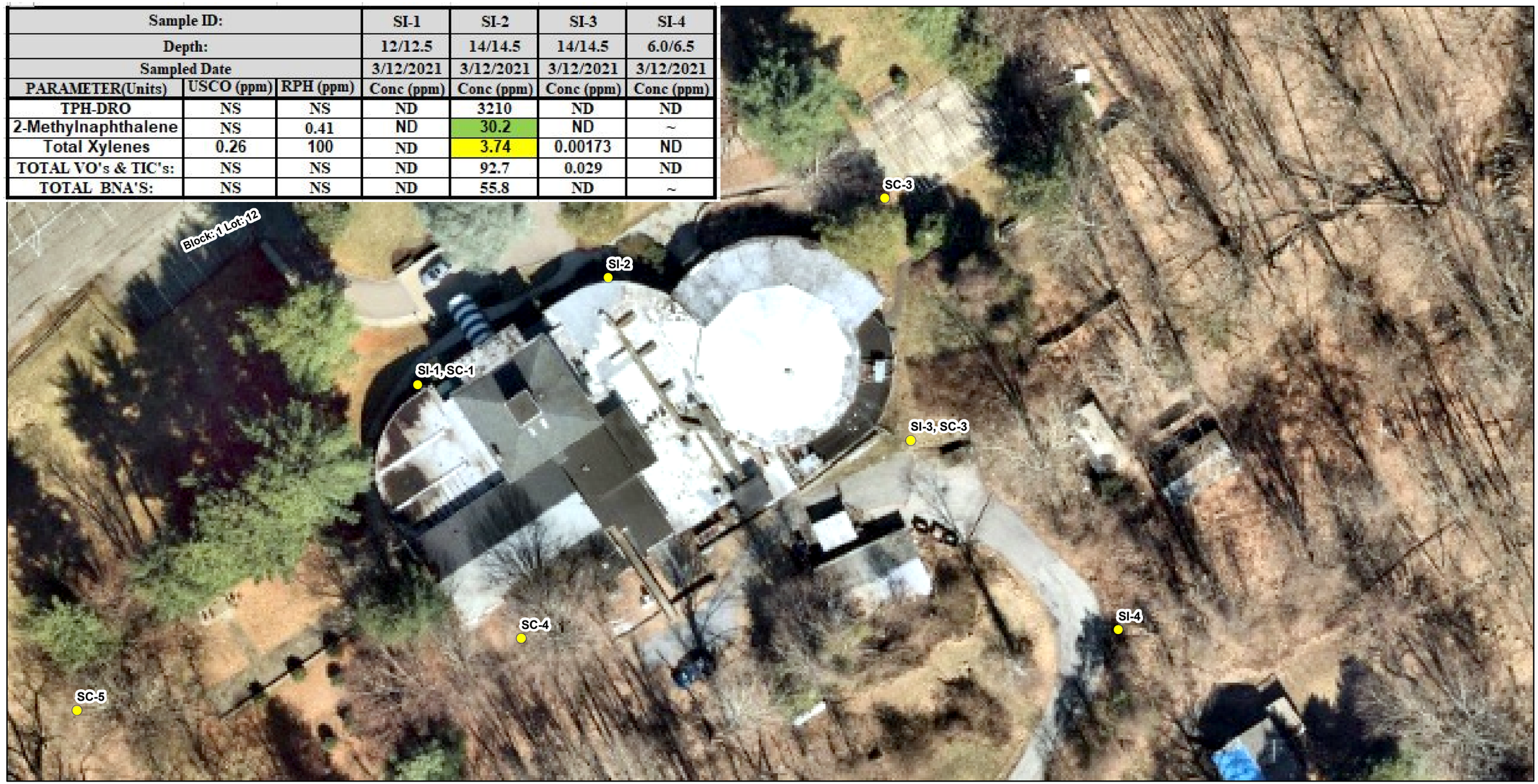
119 OREGON ROAD

119 OREGON ROAD, TOWN OF CORTLANDT
WESTCHESTER COUNTY, NEW YORK

PHASE II ESA SAMPLE LOCATION MAP

SCALE:	BLOCK:	LOT:	DRAWING #
1 " = 40 '	1	12	4
DATE:	DRAWN BY:	PROJECT NUMBER:	
03/25/2021	B.D.	16875.002	

Sample ID:			SI-1	SI-2	SI-3	SI-4
Depth:			12/12.5	14/14.5	14/14.5	6.0/6.5
Sampled Date			3/12/2021	3/12/2021	3/12/2021	3/12/2021
PARAMETER(Units)	USCO (ppm)	RPH (ppm)	Conc (ppm)	Conc (ppm)	Conc (ppm)	Conc (ppm)
TPH-DRO	NS	NS	ND	3210	ND	ND
2-Methylnaphthalene	NS	0.41	ND	30.2	ND	~
Total Xylenes	0.26	100	ND	3.74	0.00173	ND
TOTAL VO's & TIC's:	NS	NS	ND	92.7	0.029	ND
TOTAL BNA'S:	NS	NS	ND	55.8	ND	~



USCO = Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)
RPH = Residential Public Health
CPH = Commercial Public Health
GW = Groundwater Protection Part 375.6.8(b)
Highlighted Bold Indicate concentrations exceed the USCO
Highlighted Bold Indicate concentrations exceed the RPH

Legend
SOIL SAMPLES

NOTE:
ALL UNITS ARE Parts Per Million (ppm)
NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives & NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives December 2006

0 40
Feet

N

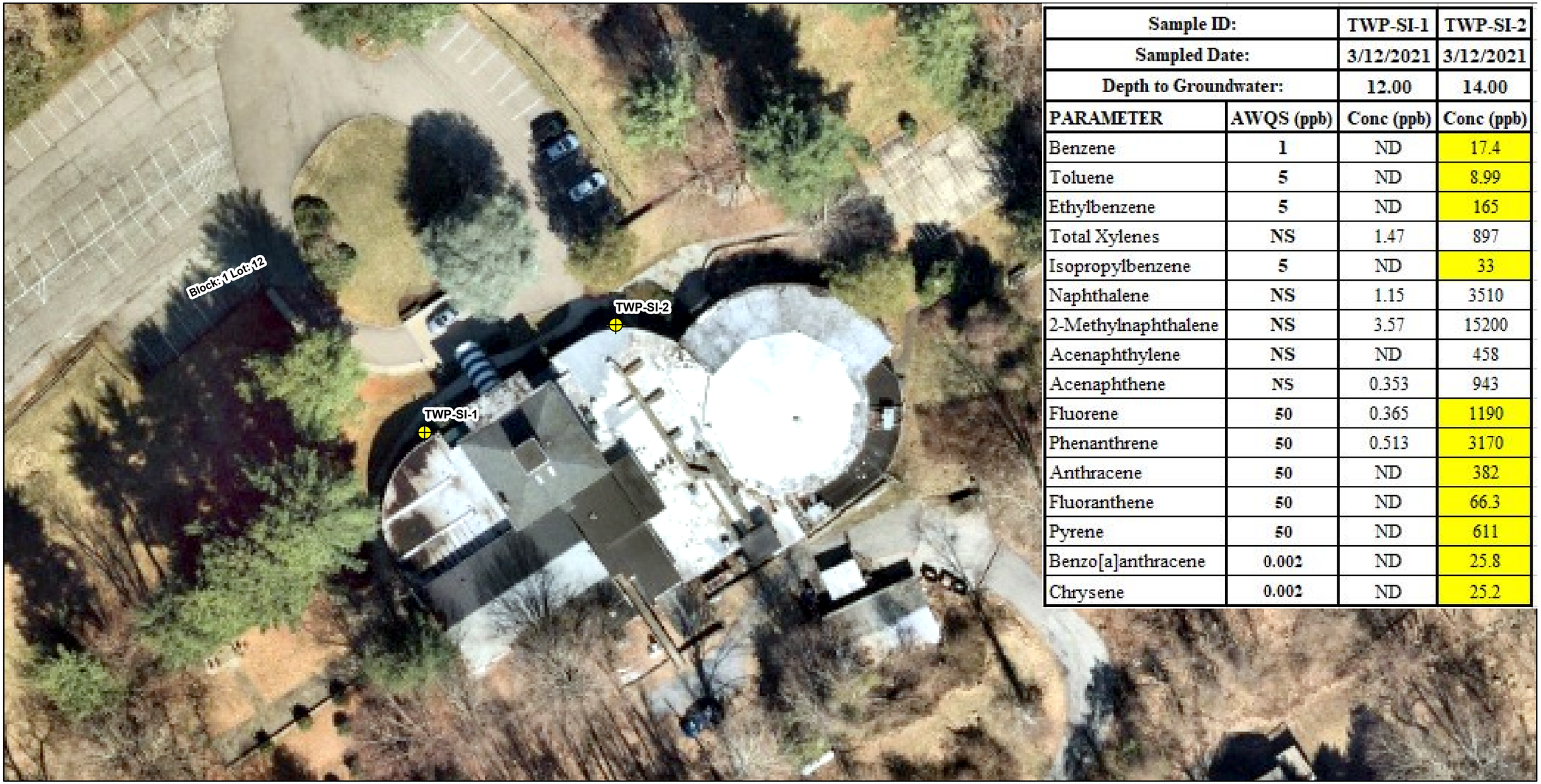
FRENCH & PARRELLO ASSOCIATES
1800 Route 34, Suite 101 ▪ Wall, NJ ▪ 07719 ▪ 732-312-9800

119 OREGON ROAD

119 OREGON ROAD, TOWN OF CORTLANDT
WESTCHESTER COUNTY, NEW YORK

SOIL SAMPLE LOCATIONS WITH SOIL ANALYTICAL RESULTS SUMMARY

SCALE:	BLOCK:	LOT:	DRAWING #
1 " = 40 '	1	12	5
DATE:	DRAWN BY:	PROJECT NUMBER:	
03/25/2021	B.D.	16875.002	



Sample ID:		TWP-SI-1	TWP-SI-2
Sampled Date:		3/12/2021	3/12/2021
Depth to Groundwater:		12.00	14.00
PARAMETER	AWQS (ppb)	Conc (ppb)	Conc (ppb)
Benzene	1	ND	17.4
Toluene	5	ND	8.99
Ethylbenzene	5	ND	165
Total Xylenes	NS	1.47	897
Isopropylbenzene	5	ND	33
Naphthalene	NS	1.15	3510
2-Methylnaphthalene	NS	3.57	15200
Acenaphthylene	NS	ND	458
Acenaphthene	NS	0.353	943
Fluorene	50	0.365	1190
Phenanthrene	50	0.513	3170
Anthracene	50	ND	382
Fluoranthene	50	ND	66.3
Pyrene	50	ND	611
Benzo[a]anthracene	0.002	ND	25.8
Chrysene	0.002	ND	25.2

All units are parts per billion (ppb)

Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality Standards and Guidance Values

AWQS = TOGs - Table 1 Ambient Water Quality Standards and Guidance Values (ug/L)

Highlighted Bold Values indicate concentrations exceeds the AWQS

Legend

TEMPORARY WELL POINT

0 40

Feet

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119 OREGON ROAD

119 OREGON ROAD, TOWN OF CORTLANDT
WESTCHESTER COUNTY, NEW YORK

TEMPORARY WELL POINT LOCATION WITH GROUNDWATER SAMPLE ANALYTICAL RESULTS

SCALE:	BLOCK:	LOT:	DRAWING #
1 " = 40 '	1	12	6
DATE:	DRAWN BY:	PROJECT NUMBER:	
03/25/2021	B.D.	16875.002	

Tables

TABLE NO. 1
FIELD SAMPLING SUMMARY
16875.002 - 119 OREGON ROAD PHASE II ESA

Sample ID	AOC	Matrix	Date	Time	Depth (feet)	PID (ppm)	Visual	Odor	Analysis
SI-1	REC-1	Soil	3/12/2021	11:00	12'-12.5'	0	N	None	TCL-VOCs, PAH, TPHC
SI-2	REC-2	Soil	3/12/2021	10:05	14'-14.5	120	Y	Strong	TCL-VOCs, PAH, TPHC
SI-3	HREC-1	Soil	3/12/2021	12:35	14'-14.5'	0	N	None	TCL-VOCs, PAH, TPHC
SI-4	REC-3	Soil	3/12/2021	13:25	6'-6.5'	0	N	None	TCL-VOCs, TPHC
SC-1	N/A	Soil	3/12/2021	11:10	Composite	0	N	None	TCLP Metals, TAL Metals
SC-2	N/A	Soil	3/12/2021	12:40	Composite	0	N	None	TCLP Metals, TAL Metals
SC-3	N/A	Soil	3/12/2021	14:30	Composite	0	N	None	TCLP Metals, TAL Metals
SC-4	N/A	Soil	3/12/2021	14:10	Composite	0	N	None	TCLP Metals, TAL Metals
SC-5	N/A	Soil	3/12/2021	14:50	Composite	0	N	None	TCLP Metals, TAL Metals
TWP-SI-1	REC-1	Soil	3/12/2021	15:15	14.55'	0	N	None	TCL-VOCs, PAH
TWP-SI-2	REC-2	Soil	3/12/2021	15:45	9.25'	130	Y	Strong	TCL-VOCs, PAH

PID = Photoionization Detector
TCLP = Toxicity Characteristic Leaching Procedure
TPHC = Total Petroleum Hydrocarbons
TCL-VOCs = TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
PAH = Polycyclic Aromatic Hydrocarbons

TABLE NO. 2
SOIL SAMPLE ANALYTICAL RESULTS SUMMARY
16875.002 - 119 OREGON ROAD PHASE II ESA

SAMPLE ID:							SI-1				SI-2				SI-3				SI-4			
LAB ID:							01472-001				01472-002				01472-003				01472-004			
COLLECTION DATE:							03/12/2021				03/12/2021				03/12/2021				03/12/2021			
SAMPLE DEPTH:							12.0-12.5'				14.0-14.5'				14.0-14.5'				6.0-6.5'			
SAMPLE MATRIX							SOIL				SOIL				SOIL				SOIL			
Parameters	**USCO**	**RPH**	**RRPH**	**CPH**	**IPH**	**GW**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Total Petroleum Hydrocarbons (TPH)																						
TPH-DRO	NS	NS	NS	NS	NS	NS	ND		215	172	3210		208	166	ND		228	182	ND		223	178
Volatile Organic Compounds (VOCs)																						
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000345	ND		0.041	0.040	ND		0.00086	0.000334	ND		0.00095	0.000369
Chloromethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000379	ND		0.041	0.026	ND		0.00086	0.000366	ND		0.00095	0.000405
Vinyl chloride	0.02	0.21	0.9	13	27	0.02	ND		0.00089	0.000377	ND		**0.041**	0.012	ND		0.00086	0.000365	ND		0.00095	0.000403
Bromomethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000532	ND		0.082	0.029	ND		0.00086	0.000514	ND		0.00095	0.000568
Chloroethane	NS	NS	NS	NS	NS	1.9	ND		0.00089	0.000424	ND		0.041	0.032	ND		0.00086	0.000409	ND		0.00095	0.000452
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000358	ND		0.041	0.036	ND		0.00086	0.000346	ND		0.00095	0.000382
1,1-Dichloroethene	0.33	100	100	500	1000	0.33	ND		0.00089	0.000363	ND		0.041	0.033	ND		0.00086	0.000351	ND		0.00095	0.000388
Acetone	0.05	100	100	500	1000	0.05	ND		0.00356	0.00227	ND		**0.163**	**0.159**	ND		0.00344	0.00219	ND		0.0038	0.00242
Carbon disulfide	NS	100	NS	NS	NS	2.7	ND		0.00089	0.000225	ND		0.041	0.018	ND		0.00086	0.000218	ND		0.00095	0.00024
Methylene chloride	0.05	51	100	500	1000	0.05	ND		0.00178	0.00173	ND		**0.082**	**0.081**	ND		0.00172	0.00167	ND		0.0019	0.00184
trans-1,2-Dichloroethene	0.19	100	100	500	1000	0.19	ND		0.00089	0.000356	ND		0.041	0.023	ND		0.00086	0.000344	ND		0.00095	0.00038
Methyl tert-butyl ether (MTBE)	0.93	62	100	500	1000	0.93	ND		0.00089	0.000264	ND		0.041	0.022	ND		0.00086	0.000255	ND		0.00095	0.000282
1,1-Dichloroethane	0.27	19	26	240	480	0.27	ND		0.00089	0.000325	ND		0.041	0.016	ND		0.00086	0.000314	ND		0.00095	0.000347
cis-1,2-Dichloroethene	0.25	59	100	500	1000	0.25	ND		0.00089	0.000308	ND		0.041	0.013	ND		0.00086	0.000298	ND		0.00095	0.000329
2-Butanone (MEK)	0.12	100	100	500	1000	0.3	ND		0.00178	0.000846	ND		0.082	0.057	ND		0.00172	0.000818	ND		0.0019	0.000903
Bromochloromethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000259	ND		0.041	0.014	ND		0.00086	0.00025	ND		0.00095	0.000276
Chloroform	0.37	10	49	350	700	0.37	ND		0.00089	0.000501	ND		0.041	0.013	ND		0.00086	0.000484	ND		0.00095	0.000535
1,1,1-Trichloroethane	0.68	100	100	500	1000	0.68	ND		0.00089	0.000252	ND		0.041	0.00857	ND		0.00086	0.000243	ND		0.00095	0.000269
Carbon tetrachloride	0.76	1.4	2.4	22	44	0.76	ND		0.00089	0.000246	ND		0.041	0.00971	ND		0.00086	0.000237	ND		0.00095	0.000262
1,2-Dichloroethane (EDC)	0.02	2.3	3.1	30	60	0.02	ND		0.00089	0.000337	ND		**0.041**	**0.022**	ND		0.00086	0.000326	ND		0.00095	0.00036
Benzene	0.06	2.9	4.8	44	89	0.06	ND		0.00089	0.000193	ND		0.041	0.012	ND		0.00086	0.000187	ND		0.00095	0.000206
Trichloroethene	0.47	10	21	200	400	0.47	ND		0.00089	0.00026	ND		0.041	0.017	ND		0.00086	0.000251	ND		0.00095	0.000277
1,2-Dichloropropane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000208	ND		0.041	0.00898	ND		0.00086	0.000201	ND		0.00095	0.000222
1,4-Dioxane	0.1	9.8	13	130	250	0.1	ND		**0.178**	0.032	ND		**16.3**	**3.00**	ND		**0.172**	0.031	ND		**0.190**	0.035
Bromodichloromethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000178	ND		0.041	0.023	ND		0.00086	0.000172	ND		0.00095	0.00019
cis-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000191	ND		0.041	0.018	ND		0.00086	0.000185	ND		0.00095	0.000204
4-Methyl-2-pentanone (MIBK)	NS	NS	NS	NS	NS	1	ND		0.00356	0.000653	ND		0.082	0.065	ND		0.00344	0.000631	ND		0.0038	0.000697
Toluene	0.7	100	100	500	1000	0.7	ND		0.00089	0.000204	ND		0.041	0.014	ND		0.00086	0.000197	ND		0.00095	0.000218
trans-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000231	ND		0.041	0.020	ND		0.00086	0.000223	ND		0.00095	0.000246
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000273	ND		0.041	0.019	ND		0.00086	0.000264	ND		0.00095	0.000292
Tetrachloroethene	1.3	5.5	19	150	300	1.3	ND		0.00089	0.000333	ND		0.041	0.022	ND		0.00086	0.000322	ND		0.00095	0.000355
2-Hexanone	NS	NS	NS	NS	NS	NS	ND		0.00356	0.00136	ND		0.082	0.080	ND		0.00344	0.00132	ND		0.0038	0.00146
Dibromochloromethane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000245	ND		0.041	0.031	ND		0.00086	0.000237	ND		0.00095	0.000261
1,2-Dibromoethane (EDB)	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000176	ND		0.041	0.021	ND		0.00086	0.00017	ND		0.00095	0.000188
Chlorobenzene	1.1	100	100	500	1000	1.1	ND		0.00089	0.000203	ND		0.041	0.023	ND		0.00086	0.000196	ND		0.00095	0.000217
Ethylbenzene	1	30	41	390	780	1	ND		0.00089	0.000246	0.625	D	0.041	0.022	0.000358	J	0.00086	0.000237	ND		0.00095	0.000262
Total Xylenes	0.26	100	100	500	1000	1.6	ND		0.00178	0.000955	**3.74**	D	0.082	0.072	0.00173		0.00172	0.000923	ND		0.0019	0.00102
Styrene	NS	NS	NS	NS	NS	NS	ND		0.00178	0.000296	ND		0.041	0.035	ND		0.00172	0.000286	ND		0.0019	0.000316
Bromoform	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000309	ND		0.041	0.035	ND		0.00086	0.000298	ND		0.00095	0.00033
Isopropylbenzene	NS	100	NS	NS	NS	2.3	ND		0.00178	0.000303	0.395	D	0.041	0.032	ND		0.00172	0.000292	ND		0.0019	0.000323
1,1,2,2-Tetrachloroethane	NS	35	NS	NS	NS	0.6	ND		0.00089	0.00039	ND		0.082	0.065	ND		0.00086	0.000377	ND		0.00095	0.000416
1,3-Dichlorobenzene	2.4	17	49	280	560	2.4	ND		0.00089	0.000263	ND		0.041	0.024	ND		0.00086	0.000254	ND		0.00095	0.00028
1,4-Dichlorobenzene	1.8	9.8	13	130	250	1.8	ND		0.00089	0.000263	ND		0.041	0.032	ND		0.00086	0.000254	ND		0.00095	0.00028
1,2-Dichlorobenzene	1.1	100	100	500	1000	1.1	ND		0.00089	0.000247	ND		0.041	0.026	ND		0.00086	0.000239	ND		0.00095	0.000264
1,2-Dibromo-3-chloropropane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000491	ND		0.082	0.047	ND		0.00086	0.000475	ND		0.00095	0.000524
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000349	ND		0.082	0.030	ND		0.00086	0.000337	ND		0.00095	0.000372
1,2,3-Trichlorobenzene	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000352	ND		0.082	0.042	ND		0.00086	0.000343	ND		0.00095	0.000375
1,1,2-Trichloro-1,2,2-trifluoroethane	NS	100	NS	NS	NS	6	ND		0.00089	0.000393	ND		0.041	0.028	ND		0.00086	0.00038	ND		0.00095	0.00042
Methyl acetate	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000273	ND		0.041	0.040	0.00388		0.00086	0.000264	ND		0.00095	0.000292
Cyclohexane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000405	0.245	D	0.082	0.045	ND		0.00086	0.000391	ND		0.00095	0.000432
Methylcyclohexane	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000259	1.36	D	0.082	0.041	ND		0.00086	0.00025	ND		0.00095	0.000276
1,3-Dichloropropene (cis- and trans-)	NS	NS	NS	NS	NS	NS	ND		0.00089	0.000231	ND		0.041	0.020	ND		0.00086	0.000223	ND		0.00095	0.000246
TOTAL VO's:	NS	NS	NS	NS	NS	NS	ND			NA	6.37	D		NA	0.00597	J		NA	ND			NA
TOTAL TIC's:	NS	NS	NS	NS	NS	NS	ND			NA	86.3	DJN		NA	0.023	JN		NA	ND			NA
Semivolatile Organic Compounds (SVOCs)																						
Naphthalene	12	100	100	500	1000	12	ND		0.037	0.029	9.77	D	0.189	0.150	ND		0.039	0.031	~		~	~
2-Methylnaphthalene	NS	0.41	NS	NS	NS	36.4	ND		0.037	0.024	**30.2**	D	0.189	0.124	ND		0.039	0.025	~		~	~
Acenaphthylene	100	100	100	500	1000	107	ND		0.037	0.029	0.476	D	0.189	0.151	ND		0.039	0.031	~		~	~
Acenaphthene	20	100	100	500	1000	98	ND		0.037	0.031	2.39	D	0.189	0.158	ND		0.039	0.032	~		~	~
Fluorene	30	100	100	500	1000	386	ND		0.037	0.032	3.03	D	0.189	0.162	ND		0.039	0.033	~		~	~
Phenanthrene	100	100	100	500	1000	1000	ND		0.037	0.035	7.79	D	0.189	0.179	ND		0.039	0.037	~		~	~
Anthracene	100	100	100	500	1000	1000	ND		0.037	0.036	0.806	D	0.189	0.185	ND		0.039	0.038	~		~	~
Fluoranthene	100	100	100	500	1000	1000	ND		0.037	0.035	0.320	D	0.189	0.182	ND		0.039	0.037	~		~	~
Pyrene	100	100	100	500	1000	1000	ND		0.037	0.033	1.01	D	0.189	0.171	ND		0.039	0.035	~		~	~
Benzo[a]anthracene	1	1	1	5.6	11	1	ND		0.037	0.022	ND		0.189	0.114	ND		0.039	0.023	~		~	~
Chrysene	1	1	3.9	56	110	1	ND		0.037	0.034	ND		0.189	0.176	ND		0.039	0.036	~		~	~
Benzo[b]fluoranthene	1	1	1	5.6	11	1.7	ND		0.037	0.035	ND		0.189	0.182	ND		0.039	0.037	~		~	~
Benzo[k]fluoranthene	0.8	1	3.9	56	110	1.7	ND		0.037	0.031	ND		0.189	0.159	ND		0.039	0.032	~		~	~
Benzo[a]pyrene	1	1	1	1	1.1	22	ND		0.037	0.032	ND		0.189	0.165	ND		0.039	0.034	~		~	~
Indeno[1,2,3-cd]pyrene	0.5	0.5	0.5	5.6	11	8.2	ND		0.037	0.036	ND		0.189	0.182	ND		0.039	0.037	~		~	~
Dibenz[a,h]anthracene	0.33	0.33	0.33	0.56	1.1	1000	ND		0.037	0.034	ND		0.189	0.175	ND		0.039	0.036	~		~	~
Benzo[g,h,i]perylene	100	100	100	500	1000	1000	ND		0.037	0.036	ND		0.189	0.184	ND		0.039	0.038	~		~	~
TOTAL BN'S/BNA'S:	NS	NS	NS	NS	NS	NS	ND			NA	55.8	D		NA	ND			NA	~		~	~
TOTAL TIC's:	NS	NS	NS	NS	NS	NS	ND			NA	ND			NA	ND			NA	~		~	~

6NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives & NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives December 2006
NS = No Standard Available
~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
D = The compound was reported from the Diluted analysis
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.
USCO = Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)
RPH = Residential Public Health
CPH = Commercial Public Health
GW = Groundwater Protection Part 375.6.8(b)
Highlighted Bold Indicate concentrations exceed the USCO
Highlighted Bold Indicate concentrations exceed the RPH
Highlighted Bold Indicate concentrations exceed the CPH
Bold Indicate concentrations exceed the GW
Red Bold values indicate the RL and/or the MDL is elevated and may exceed the applicable standards.
Green Bold values indicate the RL is above the most stringent standards; however, the MDL is below the most stringent standard.

TABLE NO. 3

GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY

16875.002 - 119 OREGON ROAD PHASE II ESA

SAMPLE ID:		TWP-SI-1				TWP-SI-2			
LAB ID:		01472-010				01472-011			
COLLECTION DATE:		03/12/2021				03/12/2021			
SAMPLE DEPTH:		14.55'				9.25'			
SAMPLE MATRIX:		GROUNDWATER				GROUNDWATER			
PARAMETERS	**AWQS**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Volatile Organic Compounds (VOCs)									
Benzene	1	ND		0.500	0.144	**17.4**	D	1.00	0.288
Toluene	5	ND		0.500	0.174	**8.99**	D	1.00	0.348
Ethylbenzene	5	ND		0.500	0.270	**165**	D	1.00	0.540
Total Xylenes	NS	1.47	D	1.00	0.881	**897**	D	2.00	1.76
Isopropylbenzene	5	ND		0.500	0.386	**33.0**	D	1.00	0.772
Cyclohexane	NS	ND		1.00	0.548	25.7	D	2.00	1.10
Methylcyclohexane	NS	ND		1.00	0.500	37.9	D	2.00	1.00
TOTAL VO's:	NS	1.47	D		NA	1180	D		NA
TOTAL TIC's:	NS	7.40	DJN		NA	6080	DJN		NA
Semivolatile Organic Compounds (SVOCs)									
Napthalene	NS	1.15		1.00	0.275	**3510**	D	**40.0**	**11.0**
2-Methylnaphthalene	NS	3.57		1.00	0.210	15200	D	200	42.0
Acenaphthylene	NS	ND		1.00	0.160	458	D	40.0	6.40
Acenaphthene	20	0.353	J	1.00	0.296	**943**	D	**40.0**	11.8
Fluorene	50	0.365	J	1.00	0.294	**1190**	D	40.0	11.8
Phenanthrene	50	0.513	J	1.00	0.246	**3170**	D	40.0	9.84
Anthracene	50	ND		1.00	0.265	**382**	D	40.0	10.6
Fluoranthene	50	ND		1.00	0.314	**66.3**	D	40.0	12.6
Pyrene	50	ND		1.00	0.328	**611**	D	40.0	13.1
Benzo[a]anthracene	0.002	ND		**0.100**	**0.098**	**25.8**	DJ	**40.0**	**9.20**
Chrysene	0.002	ND		**1.00**	**0.467**	**25.2**	DJ	**40.0**	**18.7**
TOTAL BN'S/BNA'S:	NS	5.95	J		NA	25600	DJ		NA
TOTAL TIC's:	NS	ND			NA	ND			NA

Technical Guidance and Operational Series - Table 1 New York State Ambient Water Quality Standards and Guidance Values and Table 5 New York State Groundwater Effluent Limitations (Class GA), June 1998.

NS = No Standard Available

~ = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

D = The compound was reported from the Diluted analysis

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

N = Presumptive evidence of a compound from the use of GC/MS library search.

AWQSGV = TOGs - Table 1 Ambient Water Quality Standards and Guidance Values (ug/L)

Highlighted Bold Values indicate concentrations exceeds the AWQSGV

Red Bold values indicate the RL and/or the MDL is elevated and may exceed the applicable standards.

Green Bold values indicate the RL is above the most stringent standards; however, the MDL is below the most stringent standard.

TABLE NO. 4
SOIL CHARACTERIZATION ANALYTICAL RESULTS SUMMARY
16875.002 - 119 OREGON ROAD PHASE II ESA

SAMPLE ID:							SC-1				SC-2				SC-3				SC-4				SC-5			
LAB ID:							01472-005				01472-006				01472-007				01472-008				01472-009			
COLLECTION DATE:							03/12/2021				03/12/2021				03/12/2021				03/12/2021				03/12/2021			
SAMPLE DEPTH:							COMPOSITE				COMPOSITE				COMPOSITE				COMPOSITE				COMPOSITE			
SAMPLE MATRIX:							SOIL				SOIL				SOIL				SOIL				SOIL			
Parameters	**USCO**	**RPH**	**RRPH**	**CPH**	**IPH**	**GW**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**	**Conc**	**Q**	**RL**	**MDL**
Total Metals																										
Arsenic	13	16	16	16	16	16	3.18		0.555	0.167	2.89		0.582	0.174	3.04		0.580	0.174	3.08		0.566	0.170	3.45		0.580	0.174
Barium	350	350	400	400	10000	820	46.6		0.555	0.278	57.1		0.582	0.291	56.7		0.580	0.290	61.0		0.566	0.283	84.2		0.580	0.290
Cadmium	2.5	2.5	4.3	9.3	60	7.5	ND		0.555	0.333	ND		0.582	0.349	ND		0.580	0.348	ND		0.566	0.340	ND		0.580	0.348
Chromium	NS	NS	NS	NS	NS	NS	9.47		0.555	0.278	11.5		0.582	0.291	13.1		0.580	0.290	13.8		0.566	0.283	21.9		0.580	0.290
Lead	63	400	400	1000	3900	450	25.8		0.555	0.278	6.52		0.582	0.291	12.6		0.580	0.290	28.2		0.566	0.283	7.08		0.580	0.290
Mercury	0.18	0.81	0.81	2.8	5.7	0.73	0.014	J	0.031	0.012	0.025	J	0.026	0.010	0.015	J	0.029	0.012	0.031		0.031	0.012	0.029		0.026	0.011
Selenium	3.9	36	180	1500	6800	4	2.12	J	3.89	1.67	2.10	J	**4.07**	1.74	1.84	J	**4.06**	1.74	2.17	J	**3.96**	1.70	3.22	J	**4.06**	1.74
Silver	2	36	180	1500	6800	8.3	ND		0.555	0.333	ND		0.582	0.349	ND		0.580	0.348	ND		0.566	0.340	ND		0.580	0.348
TCLP Metals (mg/L)	**Hazardous Waste Criteria (mg/L)**																									
TCLP Arsenic	5.0						ND		0.100	0.040	ND		0.100	0.040	ND		0.100	0.040	ND		0.100	0.040	ND		0.100	0.040
TCLP Barium	100.0						0.308		0.100	0.050	0.228		0.100	0.050	0.225		0.100	0.050	0.317		0.100	0.050	0.184		0.100	0.050
TCLP Cadmium	1.0						ND		0.100	0.070	ND		0.100	0.070	ND		0.100	0.070	ND		0.100	0.070	ND		0.100	0.070
TCLP Chromium	5.0						ND		0.100	0.070	ND		0.100	0.070	ND		0.100	0.070	ND		0.100	0.070	ND		0.100	0.070
TCLP Lead	5.0						0.168		0.100	0.060	ND		0.100	0.060	ND		0.100	0.060	ND		0.100	0.060	ND		0.100	0.060
TCLP Mercury	0.2						ND		0.0005	0.0002	ND		0.0005	0.0002	ND		0.0005	0.0002	ND		0.0005	0.0002	ND		0.0005	0.0002
TCLP Selenium	1.0						ND		1.00	0.300	ND		1.00	0.300	ND		1.00	0.300	ND		1.00	0.300	ND		1.00	0.300
TCLP Silver	5.0						ND		0.100	0.060	ND		0.100	0.060	ND		0.100	0.060	ND		0.100	0.060	ND		0.100	0.060

6NYCRR Part 375-6.8(a) Unrestricted Use Soil Cleanup Objectives & NYCRR Part 375-6.8(b) Restricted Use Soil Cleanup Objectives December 2006

BOLD Conc Indicates a concentration that exceeds applicable criteria.

NS = No Standard Available

~ = Sample not analyzed for

ND = Analyzed for but Not Detected at the MDL

J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

D = The compound was reported from the Diluted analysis

All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.

N = Presumptive evidence of a compound from the use of GC/MS library search.

USCO = Unrestricted Use Soil Cleanup Objectives Part 375-6.8(a)

RPH = Residential Public Health

CPH = Commercial Public Health

GW = Groundwater Protection Part 375.6.8(b)

Red Bold values indicate the RL and/or the MDL is elevated and may exceed the applicable standards.

Green Bold values indicate the RL is above the most stringent standards; however, the MDL is below the most stringent standard.

APPENDIX A

UST Integrity Tests

Accurate Tank Testing LLC www.oiltanktesting.com
P.O.BOX 366 Franklin Lakes, N.J. 07417 tnktst@msn.com | Office (201) 848-8224 | Fax (201) 847-0718
140 Greenwood Ave, Midland Park, N.J. 07432 N.J.D.E.P. #US00006

Friday, March 12, 2021

FPA Engineers
1800 Route 34, Suite 101
Wall, NJ 07719

Re: The Mansion at Colonial Terrace 119 Oregon Road, Cortlandt Manor, NY 1 – 550 Gallon #2 Fuel Oil Underground Storage Tank
Diagnostic Test via Remote Fill

Dear Sir/Madam,

Enclosed please find the test results of the EZY3 Locator Plus acoustic precision evaluation performed on the 550 gallon, #2 fuel oil, underground storage tank and associated piping located at the above referenced property. All testing conforms to the U.S.E.P.A and N.J.D.E.P. tank testing criteria. The results are as follows:

DATE	TANK	RESULT (PASS/FAIL)
3/12/2021	550 gallon #2 Oil	**FAIL**

No tank contents were measured at the time of the test due to no direct access to tank.

The evaluation results indicate that the cause of the test failure is due to an entire tank system vacuum loss. This can imply that there is a small piping leak above the liquid level which is too far away for an acoustic signal, or a hole in the bottom of the tank allowing an inflow of oil/water to cause a vacuum loss. The tank must be investigated to determine the exact cause of failure.

Possible options for investigating the cause of failure are: uncovering the tank top and inspecting all the piping and connections, isolating the tank from the piping and retesting the tank separately, or performing soil borings around the tank to determine the presence of oil contamination in the adjacent soil. If repairs are made, the tank must be retested to ensure integrity of the tank and associated piping for the tank to remain in service. **Inconsideration of the tank age, structure and *the expense to perform this work, removal of the tank is advised.***

If you have any questions or require additional information, please do not hesitate to contact me.

Thank you,

Kevin Richards

Kevin Richards
N.J.D.E.P. #249447

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

VACUUM CALCULATION
WATER SENSOR CALIBRATION

DATE 03/12/21

Test Operator: Kevin Richards
Signed Kevin Richards

TANK MATERIAL SW-Steel

Operator's State Certification # 249447

TOTAL TANK VOL. 550 GALLONS

TEST # 1 **Site ID #** 1

CUSTOMER: FPA Engineers

PRODUCT VOL. n/a INCHES

ULLAGE VOL. n/a INCHES

SITE: The Mansion at Colonial Terrace
119 Oregon Road
Cortlandt Manor, NY

PRODUCT TYPE No.2 OIL

Vacuum Sensor Calculation

n/a (INCHES OF PRODUCT)	X	0 (WEIGHT OF PRODUCT)	=	0.000	PSI (1)
n/a (INCHES OF WATER IN TANK)	X	.036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank			=	0.0000	PSI (3)
0.0 (INCHES OF WATER OUTSIDE TANK)	X	.036	=	0.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure			=	0.0000	+/-PSI (5)
Always add .5 PSI			+	0.0000	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI					
TEST PRESSURE			=	0.00	+/-PSI (7)

Test Setpoint Range: 43.00 to 53.00 Inches W.C.

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	9:35	0.00
Test Pressure Reached:	9:45	53.00
Blower Turned Off:	9:45	53.00
Test Began:	9:45	53.00
Test Ended:	10:15	49.10

TEST RESULT: Failed

Depth of Groundwater Determined:

By: Not Applicable

Where: Not Applicable

WATER SENSOR CALIBRATION

Water sensor used? Yes / No: NO

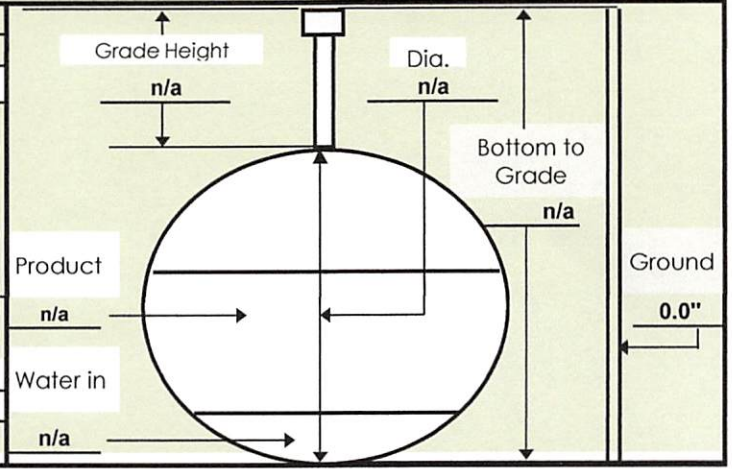
	Cal #1	Cal #2	Cal #3
Added:			
Average:			

NOTE:

Calculation for Test Period:

0 (Ave. Cal.) ÷ 3780 = 0.00000 ("A" Factor) ÷ .05 = 0 minutes (Time of Test)

WATER INTRUSION TEST PERIOD Began: Ended:



Accurate Tank Testing LLC.

VACUUM TREND ANALYSIS

DATE: 03/12/2021
TOTAL TANK VOL.(Gal): 550
PRODUCT VOL.(In): n/a
ULLAGE VOL.(In): n/a
PRODUCT TYPE: No.2 OIL

PBS# (NEW YORK):
TANK#: 1
LOCATION:
The Mansion at Colonial Terrace
119 Oregon Road
Cortlandt Manor, NY
0

START TIME	DATA	MAX "-/+"	RPH	OFF		TEST	WATER	
9:45	53.0							
9:50	50.4	-2.6	-1.8					
9:55	50.1	-0.3	0.6					
10:00	49.9	-0.2	0.6					
10:05	49.7	-0.2	0.6					
10:10	49.4	-0.3	0.5					
10:15	49.1	-0.3	0.5					

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

	TIGHT TANK THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. E.P.A.
x	ULLAGE (DRY) PORTION LEAK THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. E.P.A.
	BELOW PRODUCT LEVEL (WET) PORTION LEAK THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. E.P.A.

WATER SENSOR INDICATES
(CHECK ONLY ONE)

	NO WATER INTRUSION
	WATER INTRUSION
x	NOT APPLICABLE

SIGNATURE OF OPERATOR: Kevin Richards

PRINT NAME: Kevin Richards
CERTIFICATION #: 08-5831
EXPIRATION DATE: 4/15/2021

Accurate Tank Testing LLC.
P.O. Box 366
Franklin Lakes, NJ 07417

tnktst@msn.com

Tel (201) 848-8224
Fax (201 847-0718

Accurate Tank Testing LLC www.oiltanktesting.com
P.O.BOX 366 Franklin Lakes, N.J. 07417 tnktst@msn.com | Office (201) 848-8224 | Fax (201) 847-0718
140 Greenwood Ave, Midland Park, N.J. 07432 N.J.D.E.P. #US00006

Friday, March 12, 2021

FPA Engineers
1800 Route 34, Suite 101
Wall, NJ 07719

Re: The Mansion at Colonial Terrace 119 Oregon Road, Cortlandt Manor, NY 1 – 1,000 Gallon #2 Fuel Oil Underground Storage Tank
Diagnostic Test via Remote Fill

Dear Sir/Madam,

Enclosed please find the test results of the EZY3 Locator Plus acoustic precision evaluation performed on the 1,000 gallon, #2 fuel oil, underground storage tank and associated piping located at the above referenced property. All testing conforms to the U.S.E.P.A and N.J.D.E.P. tank testing criteria. The results are as follows:

DATE	TANK	RESULT (PASS/FAIL)
3/12/2021	1,000 gallon #2 Oil	**FAIL**

No tank contents were measured at the time of the test due to no direct access to tank.

The evaluation results indicate that the cause of the test failure is due to an entire tank system vacuum loss. This can imply that there is a small piping leak above the liquid level which is too far away for an acoustic signal, or a hole in the bottom of the tank allowing an inflow of oil/water to cause a vacuum loss. The tank must be investigated to determine the exact cause of failure.

Possible options for investigating the cause of failure are: uncovering the tank top and inspecting all the piping and connections, isolating the tank from the piping and retesting the tank separately, or performing soil borings around the tank to determine the presence of oil contamination in the adjacent soil. If repairs are made, the tank must be retested to ensure integrity of the tank and associated piping for the tank to remain in service. **Inconsideration of the tank age, structure and *the expense to perform this work, removal of the tank is advised.***

If you have any questions or require additional information, please do not hesitate to contact me.

Thank you,

Kevin Richards

Kevin Richards
N.J.D.E.P. #249447

EZY 3 LOCATOR PLUS

MANUFACTURED BY: ESTABROOK'S INC. 1-877-368-7215

VACUUM CALCULATION
WATER SENSOR CALIBRATION

DATE 03/12/21

Test Operator: Kevin Richards
Signed Kevin Richards

TANK MATERIAL SW-Steel

Operator's State Certification # 249447

TOTAL TANK VOL. 1,000 GALLONS

TEST # 1 **Site ID #** 2

PRODUCT VOL. n/a INCHES

CUSTOMER: FPA Engineers

ULLAGE VOL. n/a INCHES

SITE: The Mansion at Colonial Terrace
119 Oregon Road
Cortlandt Manor, NY

PRODUCT TYPE No.2 OIL

Vacuum Sensor Calculation

n/a (INCHES OF PRODUCT)	X 0 (WEIGHT OF PRODUCT)	=	0.000	PSI (1)
n/a (INCHES OF WATER IN TANK)	X .036	=	0.000	PSI (2)
Line 1 + Line 2 = Total Positive Head Pressure In Tank		=	0.0000	PSI (3)
.6 (INCHES OF WATER OUTSIDE TANK)	X .036	=	.000	PSI (4)
Total Head Pressure Minus Outside Water Pressure		=	0.0000	+/-PSI (5)
Always add .5 PSI		+	0.0000	PSI (6)
NOTE: If Line 6 is Less Than .5 PSI Line 7 Shall be .5 PSI				
TEST PRESSURE		=	0.00	+/-PSI (7)

Test Setpoint Range: 43.00 to 53.00 Inches W.C.

ACOUSTIC TEST TIME

	TIME	PRESSURE
Blower Started:	11:00	0.00
Test Pressure Reached:	11:05	53.90
Blower Turned Off:	11:05	53.90
Test Began:	11:05	53.90
Test Ended:	11:35	30.30

TEST RESULT: Failed

Depth of Groundwater Determined:
By: Not Applicable
Where: Not Applicable

WATER SENSOR CALIBRATION

Water sensor used? Yes / No: NO

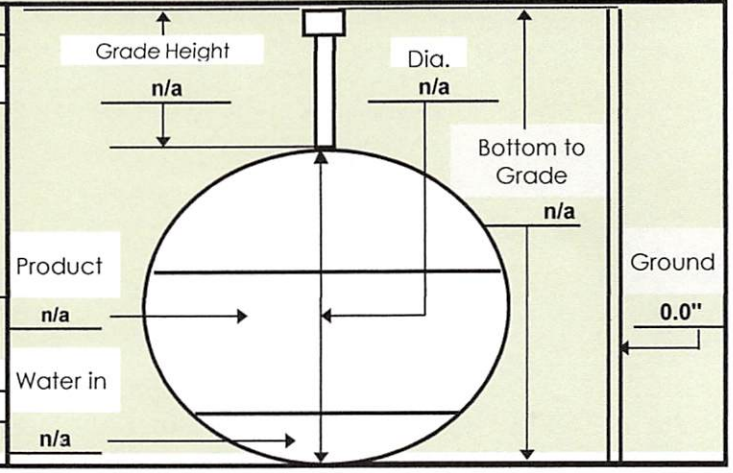
	Cal #1	Cal #2	Cal #3
Added:			
Average:			

NOTE:

Calculation for Test Period:

0 (Ave. Cal.) ÷ 3780 = 0.00000 ("A" Factor) ÷ .05 = 0 minutes (Time of Test)

WATER INTRUSION TEST PERIOD Began: Ended:



Accurate Tank Testing LLC.

VACUUM TREND ANALYSIS

DATE: 03/12/2021
TOTAL TANK VOL.(Gal): 1,000
PRODUCT VOL.(In): n/a
ULLAGE VOL.(In): n/a
PRODUCT TYPE: No.2 OIL

PBS# (NEW YORK):
TANK#: 2
LOCATION:
The Mansion at Colonial Terrace
119 Oregon Road
Cortlandt Manor, NY
0

START TIME	DATA	MAX "-/+"	RPH	OFF		TEST	WATER	
11:05	53.9							
11:10	49.0	-4.9	-4.1					
11:15	44.8	-4.2	-3.5					
11:20	40.8	-4.0	-3.3					
11:25	37.0	-3.8	-3.2					
11:30	33.3	-3.7	-3.1					
11:35	30.3	-3.0	-2.5					

THE ACOUSTIC CHARACTERISTIC OF A LEAK REVEALS:

	TIGHT TANK THIS UNDERGROUND STORAGE TANK **PASSES** THE CRITERIA SET FORTH BY THE U.S. E.P.A.
x	ULLAGE (DRY) PORTION LEAK THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. E.P.A.
	BELOW PRODUCT LEVEL (WET) PORTION LEAK THIS UNDERGROUND STORAGE TANK **FAILS** THE CRITERIA SET FORTH BY THE U.S. E.P.A.

WATER SENSOR INDICATES
(CHECK ONLY ONE)

	NO WATER INTRUSION
	WATER INTRUSION
x	NOT APPLICABLE

SIGNATURE OF OPERATOR: Kevin Richards

PRINT NAME: Kevin Richards
CERTIFICATION #: 08-5831
EXPIRATION DATE: 4/15/2021

Accurate Tank Testing LLC.
P.O. Box 366
Franklin Lakes, NJ 07417

tnktst@msn.com

Tel (201) 848-8224
Fax (201 847-0718

APPENDIX B

Boring Logs

PROJECT:	119 Oregon Road Environmental Assessment	FRENCH & PARRELLO ASSOCIATES		ENVIRONMENTAL BORING LOG	
PROJECT No.:	16875.002 and 003				
PROJECT LOCATION:	Cortland, NY				
DATE:	3/12/2021	LOGGED BY:	BD	BORING NO.:	SI-1
METHOD:	Direct push geoprobe	DRILLING CONTRACTOR:	Accurate Tank Testing	DEPTH OF BORING:	20'
GROUNDWATER LEVEL:	13.0'	SAMPLING METHOD:	SOIL	AOC:	REC-1

Recovery (ft.)	SAMPLE No.	Depth (ft.)	MATERIAL DESCRIPTION	PID	WELL LOG	REMARKS
		0-		0		
		-		0		
		-		0		
		-	0.0-3.0' Brown mf SAND, little Silt.	0		
		-		0		
		-		0		
		5-		0		
		-		0		
		-		0		
		-	3.0-8.0' light brown cmf Sand, trace Silt.	0		
		-		0		
		10-		0		
		-	8-11' Brown cmf SAND, little f Gravel.			
	sample at 12.0-12.5'	-				
		-	11-13' brown cf SAND, little f Gravel			
		-				
		15-	13-15' Brown cmf SAND, little f Gravel.			
		-				
		-				
		-				
		-				
20'		20-	15-20' Gray Brown Clayey SILT, little f Sand.			

SOIL INSPECTOR: Brendan Duffy

PROJECT:	119 Oregon Road Environmental Assessment	FRENCH & PARRELLO ASSOCIATES	ENVIRONMENTAL BORING LOG
PROJECT No.:	16875.002 and 003		
PROJECT LOCATION:	Cortland, NY		

DATE:	3/12/2021	LOGGED BY:	BD	BORING NO.:	SI-2
METHOD:	Direct push geoprobe	DRILLING CONTRACTOR:	Accurate Tank Testing	DEPTH OF BORING:	20'
GROUNDWATER LEVEL:	15.0'	SAMPLING METHOD:	SOIL	AOC:	REC-2

Recovery (ft.)	SAMPLE No.	Depth (ft.)	MATERIAL DESCRIPTION	PID	WELL LOG	REMARKS
		0-		0		
		-		0		
		-	0.0-2.0' Dark Brown SILT, some mf Sand, trace f Gravel.	0		
		-		0		
		-	2.0-4.5' Brown cmf SAND, some Silt.	0		
		-		0		
		5-		0		
		-		0		
		-		0		
		-	4.5-8.0' Brown SILT, some mf Sand.	30		
		-				
		10-	8.0-10.0' Gray Brown SILTm some f Sand.	60		
		-				
		-	10-12' Gray Clayey SILT.	80		
		-				
	Sample at 14.0-14.5'	-				Strong odor
15.5'		15-	12-15.5' Gray Clayey SILT.	120		
		-	Refusal at 15.5'			
		-				
		-				
		-				
		20-				

SOIL INSPECTOR: Brendan Duffy

The information shown hereon indicates the subsurface conditions encountered at the specific boring location on the date(s) of drilling. Subsurface conditions are likely to vary across the project site. Interpretation of the subsurface data shall be at the discretion of the user.

PROJECT:	119 Oregon Road Environmental Assessment	FRENCH & PARRELLO ASSOCIATES		ENVIRONMENTAL BORING LOG	
PROJECT No.:	16875.002 and 003				
PROJECT LOCATION:	Cortland, NY				
DATE:	3/12/2021	LOGGED BY:	BD	BORING NO.:	SI-3
METHOD:	Direct push geoprobe	DRILLING CONTRACTOR:	Accurate Tank Testing	DEPTH OF BORING:	20'
GROUNDWATER LEVEL:	NA	SAMPLING METHOD:	SOIL	AOC:	HREC-1

Recovery (ft.)	SAMPLE No.	Depth (ft.)	MATERIAL DESCRIPTION	PID	WELL LOG	REMARKS
		0-		0		
		-		0		
		-		0		
		-		0		
		-		0		
		5-		0		
		-	0.0-6.0' Brown SILT, some cf Sand.	0		
		-		0		
		-		0		
		-		0		
		-		0		
		10-		0		
		-		0		
		-	6.0-13.0' Light Brown Clayey SILT, some cf Sand, little f Gravel.	0		
	Sample at 13.0-13.5'	-	13.0-14.0' Dark Brown cmf SAND, some f Gravel.	0		Slag and Red Brick chunks at 13-14'
		-		0		
		-		0		
		15-		0		
		-		0		
17.5'		-	14.0-17.0' Silty CLAY, little f Sand, trace f Gravel.	0		
		-	Refusla at 17.5'			
		-				
		20-				

SOIL INSPECTOR: Brendan Duffy

PROJECT:	119 Oregon Road Environmental Assessment	FRENCH & PARRELLO ASSOCIATES	ENVIRONMENTAL BORING LOG
PROJECT No.:	16875.002 and 003		
PROJECT LOCATION:	Cortland, NY		
DATE:	3/12/2021	LOGGED BY: BD	BORING NO.: SI-4
METHOD:	Direct push geoprobe	DRILLING CONTRACTOR: Accurate Tank Testing	DEPTH OF BORING: 20'
GROUNDWATER LEVEL:	NA	SAMPLING METHOD: SOIL	AOC: REC-3

Recovery (ft.)	SAMPLE No.	Depth (ft.)	MATERIAL DESCRIPTION	PID	WELL LOG	REMARKS
		0-		0		
		-		0		
		-		0		
		-		0		
		-	0.0-4.0 Brown SILT, some+ f Sand.	0		
		5-		0		
		-	4.0-6.0' Dark Brown SILT, little f Sand.	0		5.0-6.0' Debris (Asphalt, Brick)
	Sample at 6.0-6.5'	-		0		
		-	6.0-8.0' Gray Brown mf SAND, little f Gravel.	0		
		-		0		
		10-		0		
		-		0		
		-	8.0-12.0' Brown Clayey SILT, Little f Sand, trace f Gravel.	0		
12.0'		-	Refusal at 12.0'			
		-				
		15-				
		-				
		-				
		-				
		-				
		20-				

SOIL INSPECTOR: Brendan Duffy

APPENDIX C

Laboratory Data

Integrated Analytical Laboratories LLC

ANALYTICAL DATA REPORT

French & Parrello
1800 Route 34
Suite 101
Wall, NJ 07719

Project Name: **119 OREGON ROAD**
IAL Case Number: **E21-01472**

These data have been reviewed and accepted by:

Michael H. Leffin, Ph.D.
Laboratory Director

273 Franklin Road
Randolph, NJ 07869
Phone: 973 361 4252

IAL is a NELAP accredited lab (TNI01284) and maintains certification in Connecticut (PH-0699), New Jersey (14751), New York (11402) and Pennsylvania (68-00773).

Integrated Analytical Laboratories - Table of Contents

Sample Summary

IAL Case No.

E21-01472

Client French & Parrello

Project 119 OREGON ROAD

Received On 3/15/2021@16:25

Lab ID	*Client Sample ID*	*Depth Top/Bottom*	*Sampling Time*	*Matrix*	*# of Container*
01472-001	SI-1	12/12.5	3/12/2021@11:00	Soil	5
01472-002	SI-2	14/14.5	3/12/2021@10:05	Soil	5
01472-003	SI-3	14/14.5	3/12/2021@12:35	Soil	5
01472-004	SI-4	6.0/6.5	3/12/2021@13:25	Soil	5
01472-005	SC-1	n/a	3/12/2021@11:10	Soil	1
01472-006	SC-2	n/a	3/12/2021@12:40	Soil	1
01472-007	SC-3	n/a	3/12/2021@14:30	Soil	1
01472-008	SC-4	n/a	3/12/2021@14:10	Soil	1
01472-009	SC-5	n/a	3/12/2021@14:50	Soil	1
01472-010	TWP-SI-1	n/a	3/12/2021@15:15	Aqueous	7
01472-011	TWP-SI-2	n/a	3/12/2021@15:45	Aqueous	7

Integrated Analytical Labs ~ 273 Franklin Road, Randolph, NJ 07869 ~ (973) 361-4252

DATA QUALIFIERS AND FLAGS

B	Indicates the analyte found in the associated method blank and in the sample due to potential lab contamination.
C	Indicates analyte is a common laboratory contaminant.
D	Indicates analyte was reported from diluted analysis.
E	Identifies a compound concentration that exceeds the upper level of the calibration range of the instrument
J	Indicates an estimated value either when the concentration in the sample is less than the RL or for qualification of TICs
M	Indicates matrix interference
N	Presumptive evidence of a compound from the use of GC/MS library search.
T	Sample analyzed outside of holding time
X	Indicates samples analyzed for total and dissolved metals differ at ≤20% RPD.
Y	Indicates DO depletion in the BOD blank is >0.20ppm
Z	Indicates internal standard failure. Sample results are either biased high or biased low.
$	Value outside NJDEP DKQP Limits
*	Result outside of QC limits

PROJECT NOTES

- All results for soils, solids, and sludges are reported on a dry-weight basis except where noted
- All test results and QC are compliant with TNI or other applicable state agency requirements/guidance unless otherwise notated in the case narrative and/or project information page.
- The case narrative for this SDG should be consulted to determine any non-conformances.
- Any samples with 15-minute or "analyze immediately" holding times (e.g. pH, Dissolved Oxygen, Sulfite, etc.) which are analyzed in the laboratory are considered out of holding time.
- IAL is a NELAP/TNI certified laboratory (TNI ID# TNI01284). IAL retains certification in Connecticut (PH-0699), New Jersey (14751), New York (11402), and Pennsylvania (68-00773).
- Certification is not required to perform analyses in the following states: AL, CO, DE, GA, HI, ID, IN, KY, MD, MI, MS, MO, MT, NE, NM, SD and TN. IAL can perform all analyses, except Drinking Water, within its scope of capabilities in these states.

ACRONYMS AND ABBREVIATIONS

CFU	Colony Forming Unit	ND	Indicates analyte was analyzed for but not detected at MDL or RL (only if MDL is not used)
CCB	Continuing Calibration Blank	NTU	Nephelometric Turbidity Units
CCV	Continuing Calibration Verification	ppb	Parts per billion. Reported as µg/L or µg/kg
DF	Dilution Factor	ppm	Parts per million. Reported as mg/L, µg/mL or mg/kg
DL	Attached as a suffix to a diluted sample	QC	Quality Control
DUP	Duplicate	% Rec	Percent Recovery
ICB	Initial Calibration Blank	RL	Reporting Limit. The RL is typically determined by the concentration of the lowest standard in the calibration curve
ICC	Initial Calibration Curve		
ICV	Initial Calibration Verification		
kg	kilogram		
L	Liter	RPD	Relative Percent Difference
LCS	Laboratory Control Sample	RSD	Relative Standard Deviation
LCSD	Laboratory Control Sample Duplicate	RT	Retention Time
MDL	Method Detection Limit as determined according to 40 CFR Part 136 Appendix B	SU	Standard Units
		TIC	Tentatively Identified Compound AKA Library Search Compounds
MF	Membrane Filter	TNI	The NELAC (National Environmental Laboratory Accreditation Council) Institute
mg	milligram (1000mg = 1g)		
µg	microgram (1000µg = 1mg)	TNTC	Too numerous to count
ml	milliliter (1000ml = 1L)	*	When attached to a compound name, indicates this analyte was analyzed by Method SW-846 8270 SIM
µl	microliter (1000µl = 1ml)		
µmhos	Conductivity units - resistance expressed in ohms	^	When attached to a compound name, indicates this analyte was analyzed by Method SW-846 8011 or EPA 504.1
MPN	Most Probable Number		
MS	Matrix Spike		
MSD	Matrix Spike Duplicate	<	Less than; In conjunction with a numerical value, indicates a concentration less than the RL or MDL
NA	Not applicable		
NC	Not calculated		

SAMPLE DELIVERY GROUP CASE NARRATIVE
(Conformance / Non-Conformance Summary)

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E21-01472

Integrated Analytical Laboratories, LLC. received eleven (11) samples** from French & Parrello (IAL SDG# **E21-01472**, Project: 119 OREGON ROAD) on March 15, 2021 for the analysis of :

(2) Low Level TCL VO for 8260+8011 + 15
(4) TCL VO + 15
(3) TCL/PAH
(2) TCL/PAH + SIM
(4) TPH-DRO
(5) RCRA Metals
(5) TCLP Metals

**Number of samples listed above may be greater than what is listed on the chain of custody. Any samples that require in-house filtration or splitting will be counted as separate samples.

Samples were received in good condition with documentation in order.
Cooler temperature was acceptable at 4 ± 2 degree C.

Volatiles By SW 8260D **Batch: 210319** **Matrix: Aqueous**

QC
- Calibration curve met QC criteria.
- Internal standards recovery met QC criteria.
- Surrogate percent recovery met QC criteria.
- Method blank met QC criteria.
- LCS percent recovery met QC criteria.
- MS/MSD RPD met QC criteria.
- MS/MSD percent recovery met QC criteria.

E21-01472
- All samples were received within holding time.
- All samples were analyzed within holding time.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-010	1	NA
E21-01472-011	2	Target compound(s).

Volatiles By SW 8260D **Batch: F210317-01** **Matrix: Soil**

QC
- Calibration curve met QC criteria.
- Internal standards recovery met QC criteria.
- Surrogate percent recovery met QC criteria.
- Method blank met QC criteria.
- LCS/LCSD Percent Recovery met QC criteria.
- MS/MSD were not analyzed due to insufficient sample volume. LCS/LCSD were analyzed in their absence to meet method specific QC requirements.

E21-01472
- All samples were received within holding time.
- All samples were analyzed within holding time.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-001	1	NA
E21-01472-003	1	NA
E21-01472-004	1	NA

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E21-01472

Volatiles By SW 8260D | **Batch: L210318-01** | **Matrix: MEOH**

QC
- Calibration curve met QC criteria.
- Internal standards recovery met QC criteria.
- Surrogate percent recovery met QC criteria.
- Method blank met QC criteria.
- LCS percent recovery met QC criteria.
- MS/MSD RPD met QC criteria.
- MS/MSD percent recovery met QC criteria.

E21-01472
- All samples were received within holding time.
- All samples were analyzed within holding time.
- Samples listed below were run using methanol preserved sample, as applicable. This sample preservation technique elevates RLs and MDLs 100x versus water preservation. If subsequent dilutions are performed, the RLs and MDLs will increase by that factor (e.g. a methanol sample run at a 5x dilution would elevate RLs and MDLs by 500x). Initial runs using methanol are considered "straight" runs and have a dilution factor of 1.

Dilution Summary:

Sample ID	DF(s)	Dilution For	MeOH Run For
E21-01472-002	2	Non-target compound(s).	

Microextractable By SW 8011 | **Batch: 210322-05** | **Matrix: Aqueous**

QC
- Calibration curve met QC criteria.
- Method blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS/MSD RPD did not meet QC criteria due to matrix interference.
- MS/MSD percent recovery did not meet QC criteria due to matrix interference.

E21-01472
- All samples were received within holding time.
- Retention Time Shift met QC criteria.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-010	1	NA
E21-01472-011	1	NA

Semivolatiles By SW 8270E | **Batch: 210317-01** | **Matrix: Soil**

QC
- Calibration curve met QC criteria.
- Internal standard recovery met QC criteria.
- Surrogate recovery met QC criteria. NJDEP DKQP criteria not met.
- Method blank met QC criteria.
- LCS percent recovery met QC criteria. NJDEP DKQP criteria not met.
- MS/MSD RPD met QC criteria.
- MS/MSD percent recovery met QC criteria. NJDEP DKQP criteria not met.

E21-01472
- All samples were received within holding time.
- All samples were extracted within holding time.
- All samples were analyzed within holding time.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-001	1	NA
E21-01472-002	5	Target compound(s).
E21-01472-003	1	NA

The result reported for 1,2-Diphenylhydrazine is also representative of Azobenzene. 1,2-Diphenylhydrazine rapidly decomposes to Azobenzene when exposed to water or heat. Analytical results from analysis of 1,2-Diphenylhydrazine will be directly compared to the applicable criteria for Azobenzene and/or 1,2-Diphenylhydrazine.

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E21-01472

Semivolatiles By SW 8270E SIM | **Batch: 210317-05** | **Matrix: Aqueous**

QC
- Calibration curve met QC criteria.
- Internal standard recovery met QC criteria.
- Surrogate recovery did not meet QC criteria due to Dituted out die to High target compounds.
- Method blank met QC criteria.
- LCS percent recovery met QC criteria. NJDEP DKQP criteria not met.
- MS/MSD RPD met QC criteria.
- MS/MSD percent recovery met QC criteria. NJDEP DKQP criteria not met.

E21-01472
- All samples were received within holding time.
- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Sample(s) used for aqueous Semivolatiles analyses contained varying levels of sediment. Precautions were taken to take an aliquot representative of the sample. However, due to the nature of aqueous samples containing sediment, reproduction of results may prove difficult. The rough amount of sediment present in the samples is as follows: 01472-010:5%; 01472-011:5%.
- 01472-011: SIM FAIL.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-010	1	NA
E21-01472-011	100	Target compound(s).

The result reported for 1,2-Diphenylhydrazine is also representative of Azobenzene. 1,2-Diphenylhydrazine rapidly decomposes to Azobenzene when exposed to water or heat. Analytical results from analysis of 1,2-Diphenylhydrazine will be directly compared to the applicable criteria for Azobenzene and/or 1,2-Diphenylhydrazine.

TPH-DRO By SW 8015D | **Batch: 210316-04** | **Matrix: Soil**

QC
- Calibration curve met QC criteria.
- Surrogate percent recovery met QC criteria.
- Method blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- RPD between MS/MSD met QC criteria.
- MS/MSD Percent Recovery met QC criteria.

E21-01472
- All samples were received within holding time.
- All samples were extracted within holding time.
- All samples were analyzed within holding time.
- Retention Time Shift met QC criteria.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-001	1	NA
E21-01472-002	1	NA
E21-01472-003	1	NA
E21-01472-004	1	NA

SAMPLE DELIVERY GROUP CASE NARRATIVE

SDG#: E21-01472

Metals By SW 1311/6020B/7470A | **Batch: T210317-01 (169A)** | **Matrix: TCLP Leachate**

QC
- Calibration Curve Linearity met QC criteria.
- Internal Standard Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS Percent Recovery met QC criteria.
- RPD between Sample/Duplicate met QC criteria.
- Serial Dilution met QC criteria.

E21-01472
- All samples were received within holding time.
- All samples were leached within holding time.
- All samples were digested within holding time.
- All samples were analyzed within holding time.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-005	1	NA
E21-01472-006	1	NA
E21-01472-007	1	NA
E21-01472-008	1	NA
E21-01472-009	1	NA

Metals By SW 6020B/7471B | **Batch: S210317-01 (170A)** | **Matrix: Soil**

QC
- Calibration Curve Linearity met QC criteria.
- Internal Standard Recovery met QC criteria.
- Method Blank met QC criteria.
- LCS Percent Recovery met QC criteria.
- MS Percent Recovery met QC criteria.
- RPD between Sample/Duplicate met QC criteria.
- Serial Dilution met QC criteria.
- The QC set was run at a 10x dilution due to high Al concentrations.

E21-01472
- All samples were received within holding time.
- All samples were digested within holding time.
- All samples were analyzed within holding time.

Dilution Summary:

Sample ID	DF(s)	Dilution For
E21-01472-005	1	NA
E21-01472-006	1	NA
E21-01472-007	1	NA
E21-01472-008	1	NA
E21-01472-009	1	NA

Metals By SW 6020B/7471B | **Batch: S210317-02 (170B)** | **Matrix: Soil**

E21-01472
- All samples were received within holding time.
- All samples were digested within holding time.
- All samples were analyzed within holding time.

A review of the QA/QC measures for the analysis of the sample(s) contained in this report has been performed by:

Reviewed by

7/1/2021
Date

RESULTS SUMMARY REPORT

SUMMARY REPORT
Client: French & Parrello
Project: 119 OREGON ROAD
Lab Case No.: E21-01472

Lab ID:	01472-010			01472-011		
Client ID:	TWP-SI-1			TWP-SI-2		
Matrix:	Aqueous			Aqueous		
Sampled Date	3/12/21			3/12/21		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL
Volatiles (Units)		*(ug/L)*			*(ug/L)*	
Benzene	ND		0.144	17.4	D	0.288
Toluene	ND		0.174	8.99	D	0.348
Ethylbenzene	ND		0.270	165	D	0.540
Total Xylenes	1.47	D	0.881	897	D	1.76
Isopropylbenzene	ND		0.386	33.0	D	0.772
Cyclohexane	ND		0.548	25.7	D	1.10
Methylcyclohexane	ND		0.500	37.9	D	1.00
TOTAL VO's:	1.47	D		1180	D	
TOTAL TIC's:	7.40	DJN		6080	DJN	
TOTAL VO's & TIC's:	8.87	DJN		7260	DJN	
Semivolatiles - BNA (Units)		*(ug/L)*			*(ug/L)*	
Naphthalene	1.15		0.275	3510	D	11.0
2-Methylnaphthalene	3.57		0.210	15200	D	42.0
Acenaphthylene	ND		0.160	458	D	6.40
Acenaphthene	0.353	J	0.296	943	D	11.8
Fluorene	0.365	J	0.294	1190	D	11.8
Phenanthrene	0.513	J	0.246	3170	D	9.84
Anthracene	ND		0.265	382	D	10.6
Fluoranthene	ND		0.314	66.3	D	12.6
Pyrene	ND		0.328	611	D	13.1
Benzo[a]anthracene	ND		0.098	25.8	DJ	9.20
Chrysene	ND		0.467	25.2	DJ	18.7
TOTAL BNA'S:	5.95	J		25600	DJ	
TOTAL TIC's:	ND			ND		
TOTAL BNA'S & TIC's:	5.95	J		25600	DJ	

~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
D = The compound was reported from the Diluted analysis
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

SUMMARY REPORT
Client: French & Parrello
Project: 119 OREGON ROAD
Lab Case No.: E21-01472

Lab ID:	01472-001			01472-002			01472-003			01472-004		
Client ID:	SI-1			SI-2			SI-3			SI-4		
Depth:	12/12.5			14/14.5			14/14.5			6.0/6.5		
Matrix:	Soil			Soil			Soil			Soil		
Sampled Date	3/12/21			3/12/21			3/12/21			3/12/21		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Volatiles (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
Ethylbenzene	ND		0.000246	0.625	D	0.022	0.000358	J	0.000237	ND		0.000262
Total Xylenes	ND		0.000955	3.74	D	0.072	0.00173		0.000923	ND		0.00102
Isopropylbenzene	ND		0.000303	0.395	D	0.032	ND		0.000292	ND		0.000323
Methyl acetate	ND		0.000273	ND		0.040	0.00388		0.000264	ND		0.000292
Cyclohexane	ND		0.000405	0.245	D	0.045	ND		0.000391	ND		0.000432
Methylcyclohexane	ND		0.000259	1.36	D	0.041	ND		0.00025	ND		0.000276
TOTAL VO's:	ND			6.37	D		0.00597	J		ND		
TOTAL TIC's:	ND			86.3	DJN		0.023	JN		ND		
TOTAL VO's & TIC's:	ND			92.7	DJN		0.029	JN		ND		
Semivolatiles - BNA (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
Naphthalene	ND		0.029	9.77	D	0.150	ND		0.031	~		~
2-Methylnaphthalene	ND		0.024	30.2	D	0.124	ND		0.025	~		~
Acenaphthylene	ND		0.029	0.476	D	0.151	ND		0.031	~		~
Acenaphthene	ND		0.031	2.39	D	0.158	ND		0.032	~		~
Fluorene	ND		0.032	3.03	D	0.162	ND		0.033	~		~
Phenanthrene	ND		0.035	7.79	D	0.179	ND		0.037	~		~
Anthracene	ND		0.036	0.806	D	0.185	ND		0.038	~		~
Fluoranthene	ND		0.035	0.320	D	0.182	ND		0.037	~		~
Pyrene	ND		0.033	1.01	D	0.171	ND		0.035	~		~
TOTAL BNA'S:	ND			55.8	D		ND			~		~
TOTAL TIC's:	ND			ND			ND			~		~
TOTAL BNA'S & TIC's:	ND			55.8	D		ND			~		~
Hydrocarbons (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
TPH-DRO	ND		172	3210		166	ND		182	ND		178

~ = Sample not analyzed for
ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.
D = The compound was reported from the Diluted analysis
All qualifiers on individual Volatiles & Semivolatiles are carried down through summation.
N = Presumptive evidence of a compound from the use of GC/MS library search.

SUMMARY REPORT
Client: French & Parrello
Project: 119 OREGON ROAD
Lab Case No.: E21-01472

Lab ID:	01472-005			01472-006			01472-007			01472-008		
Client ID:	SC-1			SC-2			SC-3			SC-4		
Depth:												
Matrix:	Soil			Soil			Soil			Soil		
TCLP Matrix:	TCLP Leachate			TCLP Leachate			TCLP Leachate			TCLP Leachate		
Sampled Date	3/12/21			3/12/21			3/12/21			3/12/21		
PARAMETER(Units)	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL	Conc	Q	MDL
Metals (Units)	*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*			*(mg/Kg)*		
Arsenic	3.18		0.167	2.89		0.174	3.04		0.174	3.08		0.170
Barium	46.6		0.278	57.1		0.291	56.7		0.290	61.0		0.283
Cadmium	ND		0.333	ND		0.349	ND		0.348	ND		0.340
Chromium	9.47		0.278	11.5		0.291	13.1		0.290	13.8		0.283
Lead	25.8		0.278	6.52		0.291	12.6		0.290	28.2		0.283
Mercury	0.014	J	0.012	0.025	J	0.010	0.015	J	0.012	0.031		0.012
Selenium	2.12	J	1.67	2.10	J	1.74	1.84	J	1.74	2.17	J	1.70
Silver	ND		0.333	ND		0.349	ND		0.348	ND		0.340
TCLP Metals (Units)	*(mg/L)*			*(mg/L)*			*(mg/L)*			*(mg/L)*		
TCLP Arsenic	ND		0.040	ND		0.040	ND		0.040	ND		0.040
TCLP Barium	0.308		0.050	0.228		0.050	0.225		0.050	0.317		0.050
TCLP Cadmium	ND		0.070	ND		0.070	ND		0.070	ND		0.070
TCLP Chromium	ND		0.070	ND		0.070	ND		0.070	ND		0.070
TCLP Lead	0.168		0.060	ND		0.060	ND		0.060	ND		0.060
TCLP Mercury	ND		0.0002	ND		0.0002	ND		0.0002	ND		0.0002
TCLP Selenium	ND		0.300	ND		0.300	ND		0.300	ND		0.300
TCLP Silver	ND		0.060	ND		0.060	ND		0.060	ND		0.060

Lab ID:	01472-009		
Client ID:	SC-5		
Depth:			
Matrix:	Soil		
TCLP Matrix:	TCLP Leachate		
Sampled Date	3/12/21		
PARAMETER(Units)	Conc	Q	MDL
Metals (Units)	*(mg/Kg)*		
Arsenic	3.45		0.174
Barium	84.2		0.290
Cadmium	ND		0.348
Chromium	21.9		0.290
Lead	7.08		0.290
Mercury	0.029		0.011
Selenium	3.22	J	1.74
Silver	ND		0.348
TCLP Metals (Units)	*(mg/L)*		
TCLP Arsenic	ND		0.040
TCLP Barium	0.184		0.050
TCLP Cadmium	ND		0.070
TCLP Chromium	ND		0.070
TCLP Lead	ND		0.060
TCLP Mercury	ND		0.0002
TCLP Selenium	ND		0.300
TCLP Silver	ND		0.060

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds. For non-target compounds (i.e. TICs), qualifier indicates estimated concentrations.

ANALYTICAL RESULTS

VOLATILE ORGANICS

Lab ID: E21-01472-001
Client ID: SI-1/12-12.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Data file: F4661.D 03/17/2021 14:16

GC/MS Column: DB-624
Sample wt/vol: 6.33g
Matrix-Units: Soil-mg/Kg
% Moisture: 11.5
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		0.00089	0.000345
Chloromethane	ND		0.00089	0.000379
Vinyl chloride	ND		0.00089	0.000377
Bromomethane	ND		0.00089	0.000532
Chloroethane	ND		0.00089	0.000424
Trichlorofluoromethane	ND		0.00089	0.000358
1,1-Dichloroethene	ND		0.00089	0.000363
Acetone	ND		0.00356	0.00227
Carbon disulfide	ND		0.00089	0.000225
Methylene chloride	ND		0.00178	0.00173
trans-1,2-Dichloroethene	ND		0.00089	0.000356
Methyl tert-butyl ether (MTBE)	ND		0.00089	0.000264
1,1-Dichloroethane	ND		0.00089	0.000325
cis-1,2-Dichloroethene	ND		0.00089	0.000308
2-Butanone (MEK)	ND		0.00178	0.000846
Bromochloromethane	ND		0.00089	0.000259
Chloroform	ND		0.00089	0.000501
1,1,1-Trichloroethane	ND		0.00089	0.000252
Carbon tetrachloride	ND		0.00089	0.000246
1,2-Dichloroethane (EDC)	ND		0.00089	0.000337
Benzene	ND		0.00089	0.000193
Trichloroethene	ND		0.00089	0.00026
1,2-Dichloropropane	ND		0.00089	0.000208
1,4-Dioxane	ND		0.178	0.032
Bromodichloromethane	ND		0.00089	0.000178
cis-1,3-Dichloropropene	ND		0.00089	0.000191
4-Methyl-2-pentanone (MIBK)	ND		0.00356	0.000653

VOLATILE ORGANICS

Lab ID: E21-01472-001
Client ID: SI-1/12-12.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Data file: F4661.D 03/17/2021 14:16

GC/MS Column: DB-624
Sample wt/vol: 6.33g
Matrix-Units: Soil-mg/Kg
% Moisture: 11.5
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.00089	0.000204
trans-1,3-Dichloropropene	ND		0.00089	0.000231
1,1,2-Trichloroethane	ND		0.00089	0.000273
Tetrachloroethene	ND		0.00089	0.000333
2-Hexanone	ND		0.00356	0.00136
Dibromochloromethane	ND		0.00089	0.000245
1,2-Dibromoethane (EDB)	ND		0.00089	0.000176
Chlorobenzene	ND		0.00089	0.000203
Ethylbenzene	ND		0.00089	0.000246
Total Xylenes	ND		0.00178	0.000955
Styrene	ND		0.00178	0.000296
Bromoform	ND		0.00089	0.000309
Isopropylbenzene	ND		0.00178	0.000303
1,1,2,2-Tetrachloroethane	ND		0.00089	0.00039
1,3-Dichlorobenzene	ND		0.00089	0.000263
1,4-Dichlorobenzene	ND		0.00089	0.000263
1,2-Dichlorobenzene	ND		0.00089	0.000247
1,2-Dibromo-3-chloropropane	ND		0.00089	0.000491
1,2,4-Trichlorobenzene	ND		0.00089	0.000349
1,2,3-Trichlorobenzene	ND		0.00089	0.000352
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00089	0.000393
Methyl acetate	ND		0.00089	0.000273
Cyclohexane	ND		0.00089	0.000405
Methylcyclohexane	ND		0.00089	0.000259
1,3-Dichloropropene (cis- and trans-)	ND		0.00089	0.000231

Total Target Compounds (52): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: E21-01472-001
Client ID: SI-1/12-12.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Date File: F4661.D

GC/MS Column: DB-624
Sample wt/vol: 6.33g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: 11.5

CAS #	Compound	Estimated Concentration	Q	Retention Time
	No peaks detected			

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

VOLATILE ORGANICS

Lab ID: E21-01472-002
Client ID: SI-2/14-14.5
Date Received: 03/15/2021
Date Analyzed: 03/18/2021
Data file: L3541.D 03/18/2021 14:47

GC/MS Column: DB-624
Sample wt/vol: 0.06945g
Matrix-Units: Soil-mg/Kg
% Moisture: 11.8
Dilution Factor: 2

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		0.041	0.040
Chloromethane	ND		0.041	0.026
Vinyl chloride	ND		0.041	0.012
Bromomethane	ND		0.082	0.029
Chloroethane	ND		0.041	0.032
Trichlorofluoromethane	ND		0.041	0.036
1,1-Dichloroethene	ND		0.041	0.033
Acetone	ND		0.163	0.159
Carbon disulfide	ND		0.041	0.018
Methylene chloride	ND		0.082	0.081
trans-1,2-Dichloroethene	ND		0.041	0.023
Methyl tert-butyl ether (MTBE)	ND		0.041	0.022
1,1-Dichloroethane	ND		0.041	0.016
cis-1,2-Dichloroethene	ND		0.041	0.013
2-Butanone (MEK)	ND		0.082	0.057
Bromochloromethane	ND		0.041	0.014
Chloroform	ND		0.041	0.013
1,1,1-Trichloroethane	ND		0.041	0.00857
Carbon tetrachloride	ND		0.041	0.00971
1,2-Dichloroethane (EDC)	ND		0.041	0.022
Benzene	ND		0.041	0.012
Trichloroethene	ND		0.041	0.017
1,2-Dichloropropane	ND		0.041	0.00898
1,4-Dioxane	ND		16.3	3.00
Bromodichloromethane	ND		0.041	0.023
cis-1,3-Dichloropropene	ND		0.041	0.018
4-Methyl-2-pentanone (MIBK)	ND		0.082	0.065

VOLATILE ORGANICS

Lab ID: E21-01472-002
Client ID: SI-2/14-14.5
Date Received: 03/15/2021
Date Analyzed: 03/18/2021
Data file: L3541.D 03/18/2021 14:47

GC/MS Column: DB-624
Sample wt/vol: 0.06945g
Matrix-Units: Soil-mg/Kg
% Moisture: 11.8
Dilution Factor: 2

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.041	0.014
trans-1,3-Dichloropropene	ND		0.041	0.020
1,1,2-Trichloroethane	ND		0.041	0.019
Tetrachloroethene	ND		0.041	0.022
2-Hexanone	ND		0.082	0.080
Dibromochloromethane	ND		0.041	0.031
1,2-Dibromoethane (EDB)	ND		0.041	0.021
Chlorobenzene	ND		0.041	0.023
Ethylbenzene	0.625	D	0.041	0.022
Total Xylenes	3.74	D	0.082	0.072
Styrene	ND		0.041	0.035
Bromoform	ND		0.041	0.035
Isopropylbenzene	0.395	D	0.041	0.032
1,1,2,2-Tetrachloroethane	ND		0.082	0.065
1,3-Dichlorobenzene	ND		0.041	0.024
1,4-Dichlorobenzene	ND		0.041	0.032
1,2-Dichlorobenzene	ND		0.041	0.026
1,2-Dibromo-3-chloropropane	ND		0.082	0.047
1,2,4-Trichlorobenzene	ND		0.082	0.030
1,2,3-Trichlorobenzene	ND		0.082	0.042
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.041	0.028
Methyl acetate	ND		0.041	0.040
Cyclohexane	0.245	D	0.082	0.045
Methylcyclohexane	1.36	D	0.082	0.041
1,3-Dichloropropene (cis- and trans-)	ND		0.041	0.020
Total Target Compounds (52):	6.37	D		

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: E21-01472-002
Client ID: SI-2/14-14.5
Date Received: 03/15/2021
Date Analyzed: 03/18/2021
Date File: L3541.D

GC/MS Column: DB-624
Sample wt/vol: 0.06945g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 2
% Moisture: 11.8

CAS #	Compound	Estimated Concentration	Q	Retention Time
000111-84-2	Nonane	4.13	DJN	10.51
001678-92-8	Cyclohexane, propyl-	4.30	DJN	11.24
000611-14-3	Benzene, 1-ethyl-2-methyl-	6.42	DJN	11.99
000526-73-8	Benzene, 1,2,3-trimethyl-	6.89	DJN	12.09
000622-96-8	Benzene, 1-ethyl-4-methyl-	4.07	DJN	12.35
000108-67-8	Benzene, 1,3,5-trimethyl-	8.28	DJN	12.56
001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	7.04	DJN	13.43
1000152-47-3	trans-Decalin, 2-methyl-	5.72	DJN	14.23
003333-13-9	Benzene, 1-methyl-4-(2-propenyl)-	3.78	DJN	14.74
000824-90-8	1-Phenyl-1-butene	8.61	DJN	14.93
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	7.32	DJN	15.11
	Unknown Aromatic	4.17	DJ	15.34
	Unknown PAH	4.52	DJ	15.72
	Unknown Aromatic	5.96	DJ	15.81
006682-71-9	1H-Indene, 2,3-dihydro-4,7-dimethyl-	5.09	DJN	16.20

Total TICs = 86.3 DJN

D --- Dilution Performed
J --- Estimated concentration for TICs
N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

VOLATILE ORGANICS

Lab ID: E21-01472-003
Client ID: SI-3/14-14.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Data file: F4662.D 03/17/2021 14:48

GC/MS Column: DB-624
Sample wt/vol: 6.69g
Matrix-Units: Soil-mg/Kg
% Moisture: 13.5
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		0.00086	0.000334
Chloromethane	ND		0.00086	0.000366
Vinyl chloride	ND		0.00086	0.000365
Bromomethane	ND		0.00086	0.000514
Chloroethane	ND		0.00086	0.000409
Trichlorofluoromethane	ND		0.00086	0.000346
1,1-Dichloroethene	ND		0.00086	0.000351
Acetone	ND		0.00344	0.00219
Carbon disulfide	ND		0.00086	0.000218
Methylene chloride	ND		0.00172	0.00167
trans-1,2-Dichloroethene	ND		0.00086	0.000344
Methyl tert-butyl ether (MTBE)	ND		0.00086	0.000255
1,1-Dichloroethane	ND		0.00086	0.000314
cis-1,2-Dichloroethene	ND		0.00086	0.000298
2-Butanone (MEK)	ND		0.00172	0.000818
Bromochloromethane	ND		0.00086	0.00025
Chloroform	ND		0.00086	0.000484
1,1,1-Trichloroethane	ND		0.00086	0.000243
Carbon tetrachloride	ND		0.00086	0.000237
1,2-Dichloroethane (EDC)	ND		0.00086	0.000326
Benzene	ND		0.00086	0.000187
Trichloroethene	ND		0.00086	0.000251
1,2-Dichloropropane	ND		0.00086	0.000201
1,4-Dioxane	ND		0.172	0.031
Bromodichloromethane	ND		0.00086	0.000172
cis-1,3-Dichloropropene	ND		0.00086	0.000185
4-Methyl-2-pentanone (MIBK)	ND		0.00344	0.000631

VOLATILE ORGANICS

Lab ID: E21-01472-003
Client ID: SI-3/14-14.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Data file: F4662.D 03/17/2021 14:48

GC/MS Column: DB-624
Sample wt/vol: 6.69g
Matrix-Units: Soil-mg/Kg
% Moisture: 13.5
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.00086	0.000197
trans-1,3-Dichloropropene	ND		0.00086	0.000223
1,1,2-Trichloroethane	ND		0.00086	0.000264
Tetrachloroethene	ND		0.00086	0.000322
2-Hexanone	ND		0.00344	0.00132
Dibromochloromethane	ND		0.00086	0.000237
1,2-Dibromoethane (EDB)	ND		0.00086	0.00017
Chlorobenzene	ND		0.00086	0.000196
Ethylbenzene	0.000358	J	0.00086	0.000237
Total Xylenes	0.00173		0.00172	0.000923
Styrene	ND		0.00172	0.000286
Bromoform	ND		0.00086	0.000298
Isopropylbenzene	ND		0.00172	0.000292
1,1,2,2-Tetrachloroethane	ND		0.00086	0.000377
1,3-Dichlorobenzene	ND		0.00086	0.000254
1,4-Dichlorobenzene	ND		0.00086	0.000254
1,2-Dichlorobenzene	ND		0.00086	0.000239
1,2-Dibromo-3-chloropropane	ND		0.00086	0.000475
1,2,4-Trichlorobenzene	ND		0.00086	0.000337
1,2,3-Trichlorobenzene	ND		0.00086	0.00034
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00086	0.00038
Methyl acetate	0.00388		0.00086	0.000264
Cyclohexane	ND		0.00086	0.000391
Methylcyclohexane	ND		0.00086	0.00025
1,3-Dichloropropene (cis- and trans-)	ND		0.00086	0.000223
Total Target Compounds (52):	0.00597	J		

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: E21-01472-003
Client ID: SI-3/14-14.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Date File: F4662.D

GC/MS Column: DB-624
Sample wt/vol: 6.69g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: 13.5

CAS #	Compound	Estimated Concentration	Q	Retention Time
000526-73-8	Benzene, 1,2,3-trimethyl-	0.00662	JN	12.64
001074-43-7	Benzene, 1-methyl-3-propyl-	0.00456	JN	13.43
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl)-	0.00568	JN	13.51
002234-20-0	2,4-Dimethylstyrene	0.00576	JN	15.00

Total TICs = 0.023 JN

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

VOLATILE ORGANICS

Lab ID: E21-01472-004
Client ID: SI-4/6.0-6.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Data file: F4663.D 03/17/2021 15:19

GC/MS Column: DB-624
Sample wt/vol: 6.18g
Matrix-Units: Soil-mg/Kg
% Moisture: 15.2
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		0.00095	0.000369
Chloromethane	ND		0.00095	0.000405
Vinyl chloride	ND		0.00095	0.000403
Bromomethane	ND		0.00095	0.000568
Chloroethane	ND		0.00095	0.000452
Trichlorofluoromethane	ND		0.00095	0.000382
1,1-Dichloroethene	ND		0.00095	0.000388
Acetone	ND		0.0038	0.00242
Carbon disulfide	ND		0.00095	0.00024
Methylene chloride	ND		0.0019	0.00184
trans-1,2-Dichloroethene	ND		0.00095	0.00038
Methyl tert-butyl ether (MTBE)	ND		0.00095	0.000282
1,1-Dichloroethane	ND		0.00095	0.000347
cis-1,2-Dichloroethene	ND		0.00095	0.000329
2-Butanone (MEK)	ND		0.0019	0.000903
Bromochloromethane	ND		0.00095	0.000276
Chloroform	ND		0.00095	0.000535
1,1,1-Trichloroethane	ND		0.00095	0.000269
Carbon tetrachloride	ND		0.00095	0.000262
1,2-Dichloroethane (EDC)	ND		0.00095	0.00036
Benzene	ND		0.00095	0.000206
Trichloroethene	ND		0.00095	0.000277
1,2-Dichloropropane	ND		0.00095	0.000222
1,4-Dioxane	ND		0.190	0.035
Bromodichloromethane	ND		0.00095	0.00019
cis-1,3-Dichloropropene	ND		0.00095	0.000204
4-Methyl-2-pentanone (MIBK)	ND		0.0038	0.000697

VOLATILE ORGANICS

Lab ID: E21-01472-004
Client ID: SI-4/6.0-6.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Data file: F4663.D 03/17/2021 15:19

GC/MS Column: DB-624
Sample wt/vol: 6.18g
Matrix-Units: Soil-mg/Kg
% Moisture: 15.2
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.00095	0.000218
trans-1,3-Dichloropropene	ND		0.00095	0.000246
1,1,2-Trichloroethane	ND		0.00095	0.000292
Tetrachloroethene	ND		0.00095	0.000355
2-Hexanone	ND		0.0038	0.00146
Dibromochloromethane	ND		0.00095	0.000261
1,2-Dibromoethane (EDB)	ND		0.00095	0.000188
Chlorobenzene	ND		0.00095	0.000217
Ethylbenzene	ND		0.00095	0.000262
Total Xylenes	ND		0.0019	0.00102
Styrene	ND		0.0019	0.000316
Bromoform	ND		0.00095	0.00033
Isopropylbenzene	ND		0.0019	0.000323
1,1,2,2-Tetrachloroethane	ND		0.00095	0.000416
1,3-Dichlorobenzene	ND		0.00095	0.00028
1,4-Dichlorobenzene	ND		0.00095	0.00028
1,2-Dichlorobenzene	ND		0.00095	0.000264
1,2-Dibromo-3-chloropropane	ND		0.00095	0.000524
1,2,4-Trichlorobenzene	ND		0.00095	0.000372
1,2,3-Trichlorobenzene	ND		0.00095	0.000375
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.00095	0.00042
Methyl acetate	ND		0.00095	0.000292
Cyclohexane	ND		0.00095	0.000432
Methylcyclohexane	ND		0.00095	0.000276
1,3-Dichloropropene (cis- and trans-)	ND		0.00095	0.000246

Total Target Compounds (52): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: E21-01472-004
Client ID: SI-4/6.0-6.5
Date Received: 03/15/2021
Date Analyzed: 03/17/2021
Date File: F4663.D

GC/MS Column: DB-624
Sample wt/vol: 6.18g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: 15.2

CAS #	Compound	Estimated Concentration	Q	Retention Time
	No peaks detected			

Total TICs = 0

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

VOLATILE ORGANICS

Lab ID: E21-01472-010
Client ID: TWP-SI-1
Date Received: 03/15/2021
Date Analyzed: 03/19/2021
Data file: K8382.D 03/19/2021 18:33
Data file: P2857.D^

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.490
Chloromethane	ND		0.500	0.317
Vinyl chloride	ND		1.00	0.149
Bromomethane	ND		1.00	0.356
Chloroethane	ND		0.500	0.390
Trichlorofluoromethane	ND		0.500	0.445
1,1-Dichloroethene	ND		0.500	0.409
Acetone	ND		2.00	1.95
Carbon disulfide	ND		1.00	0.220
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	ND		0.500	0.265
1,1-Dichloroethane	ND		0.500	0.193
cis-1,2-Dichloroethene	ND		0.500	0.156
2-Butanone (MEK)	ND		2.00	0.701
Bromochloromethane	ND		1.00	0.174
Chloroform	ND		0.500	0.163
1,1,1-Trichloroethane	ND		0.500	0.105
Carbon tetrachloride	ND		0.500	0.119
1,2-Dichloroethane (EDC)	ND		0.500	0.271
Benzene	ND		0.500	0.144
Trichloroethene	ND		0.500	0.205
1,2-Dichloropropane	ND		0.500	0.110
1,4-Dioxane	ND		100	36.7
Bromodichloromethane	ND		0.500	0.286
cis-1,3-Dichloropropene	ND		1.00	0.222
4-Methyl-2-pentanone (MIBK)	ND		1.00	0.795

VOLATILE ORGANICS

Lab ID: E21-01472-010
Client ID: TWP-SI-1
Date Received: 03/15/2021
Date Analyzed: 03/19/2021
Data file: K8382.D 03/19/2021 18:33
Data file: P2857.D^

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.174
trans-1,3-Dichloropropene	ND		1.00	0.241
1,1,2-Trichloroethane	ND		0.500	0.232
Tetrachloroethene	ND		0.500	0.270
2-Hexanone	ND		1.00	0.975
Dibromochloromethane	ND		0.500	0.381
1,2-Dibromoethane (EDB)^	ND		0.00491	0.00434
Chlorobenzene	ND		0.500	0.278
Ethylbenzene	ND		0.500	0.270
Total Xylenes	1.47	D	1.00	0.881
Styrene	ND		0.500	0.432
Bromoform	ND		0.500	0.423
Isopropylbenzene	ND		0.500	0.386
1,1,2,2-Tetrachloroethane	ND		1.00	0.791
1,3-Dichlorobenzene	ND		0.500	0.296
1,4-Dichlorobenzene	ND		0.500	0.392
1,2-Dichlorobenzene	ND		0.500	0.324
1,2-Dibromo-3-chloropropane^	ND		0.00491	0.00434
1,2,4-Trichlorobenzene	ND		1.00	0.362
1,2,3-Trichlorobenzene	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.347
Methyl acetate	ND		0.500	0.487
Cyclohexane	ND		1.00	0.548
Methylcyclohexane	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	ND		1.00	0.241
Total Target Compounds (52):	1.47	D		

^ --- Results reported from SW-846 8011
D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: E21-01472-010
Client ID: TWP-SI-1
Date Received: 03/15/2021
Date Analyzed: 03/19/2021
Date File: K8382.D

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
000090-12-0	Naphthalene, 1-methyl-	7.40	DJN	16.85

Total TICs = 7.40 DJN

D --- Dilution Performed
J --- Estimated concentration for TICs
N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

VOLATILE ORGANICS

Lab ID: E21-01472-011
Client ID: TWP-SI-2
Date Received: 03/15/2021
Date Analyzed: 03/19/2021
Data file: K8383.D 03/19/2021 18:59
Data file: P2858.D^

GC/MS Column: DB-624
Sample wt/vol: 2.5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 2

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		2.00	0.980
Chloromethane	ND		1.00	0.634
Vinyl chloride	ND		2.00	0.298
Bromomethane	ND		2.00	0.712
Chloroethane	ND		1.00	0.780
Trichlorofluoromethane	ND		1.00	0.890
1,1-Dichloroethene	ND		1.00	0.818
Acetone	ND		4.00	3.90
Carbon disulfide	ND		2.00	0.440
Methylene chloride	ND		2.00	1.98
trans-1,2-Dichloroethene	ND		1.00	0.562
Methyl tert-butyl ether (MTBE)	ND		1.00	0.530
1,1-Dichloroethane	ND		1.00	0.386
cis-1,2-Dichloroethene	ND		1.00	0.312
2-Butanone (MEK)	ND		4.00	1.40
Bromochloromethane	ND		2.00	0.348
Chloroform	ND		1.00	0.326
1,1,1-Trichloroethane	ND		1.00	0.210
Carbon tetrachloride	ND		1.00	0.238
1,2-Dichloroethane (EDC)	ND		1.00	0.542
Benzene	17.4	D	1.00	0.288
Trichloroethene	ND		1.00	0.410
1,2-Dichloropropane	ND		1.00	0.220
1,4-Dioxane	ND		200	73.4
Bromodichloromethane	ND		1.00	0.572
cis-1,3-Dichloropropene	ND		2.00	0.444
4-Methyl-2-pentanone (MIBK)	ND		2.00	1.59

VOLATILE ORGANICS

Lab ID: E21-01472-011
Client ID: TWP-SI-2
Date Received: 03/15/2021
Date Analyzed: 03/19/2021
Data file: K8383.D 03/19/2021 18:59
Data file: P2858.D^

GC/MS Column: DB-624
Sample wt/vol: 2.5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 2

Compound	Concentration	Q	RL	MDL
Toluene	8.99	D	1.00	0.348
trans-1,3-Dichloropropene	ND		2.00	0.482
1,1,2-Trichloroethane	ND		1.00	0.464
Tetrachloroethene	ND		1.00	0.540
2-Hexanone	ND		2.00	1.95
Dibromochloromethane	ND		1.00	0.762
1,2-Dibromoethane (EDB)^	ND		0.00483	0.00426
Chlorobenzene	ND		1.00	0.556
Ethylbenzene	165	D	1.00	0.540
Total Xylenes	897	D	2.00	1.76
Styrene	ND		1.00	0.864
Bromoform	ND		1.00	0.846
Isopropylbenzene	33.0	D	1.00	0.772
1,1,2,2-Tetrachloroethane	ND		2.00	1.58
1,3-Dichlorobenzene	ND		1.00	0.592
1,4-Dichlorobenzene	ND		1.00	0.784
1,2-Dichlorobenzene	ND		1.00	0.648
1,2-Dibromo-3-chloropropane^	ND		0.00483	0.00426
1,2,4-Trichlorobenzene	ND		2.00	0.724
1,2,3-Trichlorobenzene	ND		2.00	1.03
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.00	0.694
Methyl acetate	ND		1.00	0.974
Cyclohexane	25.7	D	2.00	1.10
Methylcyclohexane	37.9	D	2.00	1.00
1,3-Dichloropropene (cis- and trans-)	ND		2.00	0.482
Total Target Compounds (52):	1180	D		

^ --- Results reported from SW-846 8011
D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: E21-01472-011
Client ID: TWP-SI-2
Date Received: 03/15/2021
Date Analyzed: 03/19/2021
Date File: K8383.D

GC/MS Column: DB-624
Sample wt/vol: 2.5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 2
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
000611-14-3	Benzene, 1-ethyl-2-methyl-	497	DJN	12.11
000108-67-8	Benzene, 1,3,5-trimethyl-	180	DJN	12.22
	Unknown Aromatic	230	DJ	12.46
000526-73-8	Benzene, 1,2,3-trimethyl-	820	DJN	12.67
	Unknown Aromatic	339	DJ	13.19
	Unknown Aromatic	380	DJ	13.44
000527-84-4	Benzene, 1-methyl-2-(1-methylethyl	155	DJN	13.54
007525-62-4	Benzene, 1-ethenyl-3-ethyl-	173	DJN	14.15
000874-35-1	1H-Indene, 2,3-dihydro-5-methyl-	152	DJN	14.86
000767-58-8	Indan, 1-methyl-	424	DJN	15.04
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	220	DJN	15.22
000091-20-3	Naphthalene	820	DJN	15.72
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-	184	DJN	16.31
000091-57-6	Naphthalene, 2-methyl-	984	DJN	16.86
	Unknown PAH	520	DJ	17.05

Total TICs = 6080 DJN

D --- Dilution Performed

J --- Estimated concentration for TICs

N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

SEMIVOLATILE ORGANICS

Lab ID: E21-01472-001
Client ID: SI-1/12-
Date Received: 03/15/2021
Date Extracted: 03/17/2021
Date Analyzed: 03/17/2021
Data file: C7119.D 03/17/2021 20:13

GC/MS Column: DB-5
Sample wt/vol: 15.0g
Matrix-Units: Soil-mg/Kg
% Moisture: 9.30
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Naphthalene	ND		0.037	0.029
2-Methylnaphthalene	ND		0.037	0.024
Acenaphthylene	ND		0.037	0.029
Acenaphthene	ND		0.037	0.031
Fluorene	ND		0.037	0.032
Phenanthrene	ND		0.037	0.035
Anthracene	ND		0.037	0.036
Fluoranthene	ND		0.037	0.035
Pyrene	ND		0.037	0.033
Benzo[a]anthracene	ND		0.037	0.022
Chrysene	ND		0.037	0.034
Benzo[b]fluoranthene	ND		0.037	0.035
Benzo[k]fluoranthene	ND		0.037	0.031
Benzo[a]pyrene	ND		0.037	0.032
Indeno[1,2,3-cd]pyrene	ND		0.037	0.036
Dibenz[a,h]anthracene	ND		0.037	0.034
Benzo[g,h,i]perylene	ND		0.037	0.036

Total Target Compounds (17): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS

Lab ID: E21-01472-002
Client ID: SI-2/14-
Date Received: 03/15/2021
Date Extracted: 03/17/2021
Date Analyzed: 03/17/2021
Data file: C7120.D 03/17/2021 20:29

GC/MS Column: DB-5
Sample wt/vol: 15.0g
Matrix-Units: Soil-mg/Kg
% Moisture: 11.8
Dilution Factor: 5

Compound	Concentration	Q	RL	MDL
Naphthalene	9.77	D	0.189	0.150
2-Methylnaphthalene	30.2	D	0.189	0.124
Acenaphthylene	0.476	D	0.189	0.151
Acenaphthene	2.39	D	0.189	0.158
Fluorene	3.03	D	0.189	0.162
Phenanthrene	7.79	D	0.189	0.179
Anthracene	0.806	D	0.189	0.185
Fluoranthene	0.320	D	0.189	0.182
Pyrene	1.01	D	0.189	0.171
Benzo[a]anthracene	ND		0.189	0.114
Chrysene	ND		0.189	0.176
Benzo[b]fluoranthene	ND		0.189	0.182
Benzo[k]fluoranthene	ND		0.189	0.159
Benzo[a]pyrene	ND		0.189	0.165
Indeno[1,2,3-cd]pyrene	ND		0.189	0.182
Dibenz[a,h]anthracene	ND		0.189	0.175
Benzo[g,h,i]perylene	ND		0.189	0.184
Total Target Compounds (17):	55.8	D		

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS

Lab ID: E21-01472-003
Client ID: SI-3/14-
Date Received: 03/15/2021
Date Extracted: 03/17/2021
Date Analyzed: 03/17/2021
Data file: C7121.D 03/17/2021 20:43

GC/MS Column: DB-5
Sample wt/vol: 15.0g
Matrix-Units: Soil-mg/Kg
% Moisture: 13.5
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Naphthalene	ND		0.039	0.031
2-Methylnaphthalene	ND		0.039	0.025
Acenaphthylene	ND		0.039	0.031
Acenaphthene	ND		0.039	0.032
Fluorene	ND		0.039	0.033
Phenanthrene	ND		0.039	0.037
Anthracene	ND		0.039	0.038
Fluoranthene	ND		0.039	0.037
Pyrene	ND		0.039	0.035
Benzo[a]anthracene	ND		0.039	0.023
Chrysene	ND		0.039	0.036
Benzo[b]fluoranthene	ND		0.039	0.037
Benzo[k]fluoranthene	ND		0.039	0.032
Benzo[a]pyrene	ND		0.039	0.034
Indeno[1,2,3-cd]pyrene	ND		0.039	0.037
Dibenz[a,h]anthracene	ND		0.039	0.036
Benzo[g,h,i]perylene	ND		0.039	0.038

Total Target Compounds (17): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS

Lab ID: E21-01472-010
Client ID: TWP-SI-1
Date Received: 03/15/2021
Date Extracted: 03/17/2021
Date Analyzed: 03/23/2021
Data file: B7980.D 03/23/2021 20:52
SIM Data file: B7967.D 03/23/2021 17:26

GC/MS Column: DB-5
Sample wt/vol: 500ml
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Naphthalene	1.15		1.00	0.275
2-Methylnaphthalene	3.57		1.00	0.210
Acenaphthylene	ND		1.00	0.160
Acenaphthene	0.353	J	1.00	0.296
Fluorene	0.365	J	1.00	0.294
Phenanthrene	0.513	J	1.00	0.246
Anthracene	ND		1.00	0.265
Fluoranthene	ND		1.00	0.314
Pyrene	ND		1.00	0.328
Benzo[a]anthracene *	ND		0.100	0.098
Chrysene	ND		1.00	0.467
Benzo[b]fluoranthene *	ND		0.100	0.092
Benzo[k]fluoranthene *	ND		0.100	0.089
Benzo[a]pyrene *	ND		0.100	0.087
Indeno[1,2,3-cd]pyrene *	ND		0.100	0.088
Dibenz[a,h]anthracene *	ND		0.100	0.094
Benzo[g,h,i]perylene	ND		1.00	0.326
Total Target Compounds (17):	5.95	J	* - RL & MDL from SIM run	

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS

Lab ID: E21-01472-011
Client ID: TWP-SI-2
Date Received: 03/15/2021
Date Extracted: 03/17/2021
Date Analyzed: 03/24/2021
Data file: B7998.D 03/24/2021 01:34

GC/MS Column: DB-5
Sample wt/vol: 500ml
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 20

Compound	Concentration	Q	RL	MDL
Naphthalene	3510	D	40.0	11.0
2-Methylnaphthalene	15700	E	40.0	8.40
Acenaphthylene	458	D	40.0	6.40
Acenaphthene	943	D	40.0	11.8
Fluorene	1190	D	40.0	11.8
Phenanthrene	3170	D	40.0	9.84
Anthracene	382	D	40.0	10.6
Fluoranthene	66.3	D	40.0	12.6
Pyrene	611	D	40.0	13.1
Benzo[a]anthracene	25.8	DJ	40.0	9.20
Chrysene	25.2	DJ	40.0	18.7
Benzo[b]fluoranthene	ND		40.0	7.68
Benzo[k]fluoranthene	ND		40.0	15.9
Benzo[a]pyrene	ND		40.0	5.52
Indeno[1,2,3-cd]pyrene	ND		40.0	4.44
Dibenz[a,h]anthracene	ND		40.0	5.84
Benzo[g,h,i]perylene	ND		40.0	13.0

Total Target Compounds (17): 26100 DEJ

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS

Lab ID: E21-01472-011DL
Client ID: TWP-SI-2
Date Received: 03/15/2021
Date Extracted: 03/17/2021
Date Analyzed: 03/24/2021
Data file: B7999.D 03/24/2021 01:50

GC/MS Column: DB-5
Sample wt/vol: 500ml
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 100

Compound	Concentration	Q	RL	MDL
Naphthalene	3630	D	200	55.0
2-Methylnaphthalene	15200	D	200	42.0
Acenaphthylene	621	D	200	32.0
Acenaphthene	1000	D	200	59.2
Fluorene	1600	D	200	58.8
Phenanthrene	3330	D	200	49.2
Anthracene	298	D	200	53.0
Fluoranthene	ND		200	62.8
Pyrene	587	D	200	65.6
Benzo[a]anthracene	ND		200	46.0
Chrysene	ND		200	93.4
Benzo[b]fluoranthene	ND		200	38.4
Benzo[k]fluoranthene	ND		200	79.6
Benzo[a]pyrene	ND		200	27.6
Indeno[1,2,3-cd]pyrene	ND		200	22.2
Dibenz[a,h]anthracene	ND		200	29.2
Benzo[g,h,i]perylene	ND		200	65.2
Total Target Compounds (17):	26300	D		

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve
B --- Compound detected in Blank
C --- Common laboratory contamination

INTEGRATED ANALYTICAL LABORATORIES

TPH-DRO

Client/Project: FRENCH/119 OREGON ROAD

Lab ID:	01472-001	GC Column:	RTX-5
Client ID:	SI-1	Sample wt/vol:	5.25g
Date Received:	03/15/2021	Matrix-Units:	Soil-mg/Kg (ppm)
Date Extracted:	03/16/2021	Dilution Factor:	1
Date Analyzed:	03/17/2021	%Moisture:	11.5
Data File:	QB6927.D		

Compound	Concentration	Q	RL	MDL
TPH-DRO	ND		215	172

INTEGRATED ANALYTICAL LABORATORIES

TPH-DRO

Client/Project: FRENCH/119 OREGON ROAD

Lab ID:	01472-002	GC Column:	RTX-5
Client ID:	SI-2	Sample wt/vol:	5.46g
Date Received:	03/15/2021	Matrix-Units:	Soil-mg/Kg (ppm)
Date Extracted:	03/16/2021	Dilution Factor:	1
Date Analyzed:	03/17/2021	%Moisture:	11.8
Data File:	QB6928.D		

Compound	Concentration	Q	RL	MDL
TPH-DRO	3,210		208	166

INTEGRATED ANALYTICAL LABORATORIES

TPH-DRO

Client/Project: FRENCH/119 OREGON ROAD

Lab ID:	01472-003	GC Column:	RTX-5
Client ID:	SI-3	Sample wt/vol:	5.08g
Date Received:	03/15/2021	Matrix-Units:	Soil-mg/Kg (ppm)
Date Extracted:	03/16/2021	Dilution Factor:	1
Date Analyzed:	03/17/2021	%Moisture:	13.5
Data File:	QB6929.D		

Compound	Concentration	Q	RL	MDL
TPH-DRO	ND		228	182

INTEGRATED ANALYTICAL LABORATORIES

TPH-DRO

Client/Project: FRENCH/119 OREGON ROAD

Lab ID:	01472-004	GC Column:	RTX-5
Client ID:	SI-4	Sample wt/vol:	5.29g
Date Received:	03/15/2021	Matrix-Units:	Soil-mg/Kg (ppm)
Date Extracted:	03/16/2021	Dilution Factor:	1
Date Analyzed:	03/17/2021	%Moisture:	15.2
Data File:	QB6930.D		

Compound	Concentration	Q	RL	MDL
TPH-DRO	ND		223	178

METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-005
Client ID: SC-1
Date Collected: 03/12/21 11:10
Date Received: 03/15/21 16:25
Matrix-Units: Soil-mg/Kg (ppm)
% Moisture: 10.0
Batch #: 170

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
Arsenic	3.18		1	0.555	0.167	03/18/21 06:41	SW 6020B
Barium	46.6		1	0.555	0.278	03/18/21 06:41	SW 6020B
Cadmium	ND		1	0.555	0.333	03/18/21 06:41	SW 6020B
Chromium	9.47		1	0.555	0.278	03/18/21 06:41	SW 6020B
Lead	25.8		1	0.555	0.278	03/18/21 06:41	SW 6020B
Mercury	0.0137	J	1	0.0308	0.0123	03/18/21 16:33	SW 7471B
Selenium	2.12	J	1	3.89	1.67	03/18/21 06:41	SW 6020B
Silver	ND		1	0.555	0.333	03/18/21 06:41	SW 6020B

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds

METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-006
Client ID: SC-2
Date Collected: 03/12/21 12:40
Date Received: 03/15/21 16:25
Matrix-Units: Soil-mg/Kg (ppm)
% Moisture: 12.0
Batch #: 170

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
Arsenic	2.89		1	0.582	0.174	03/18/21 07:02	SW 6020B
Barium	57.1		1	0.582	0.291	03/18/21 07:02	SW 6020B
Cadmium	ND		1	0.582	0.349	03/18/21 07:02	SW 6020B
Chromium	11.5		1	0.582	0.291	03/18/21 07:02	SW 6020B
Lead	6.52		1	0.582	0.291	03/18/21 07:02	SW 6020B
Mercury	0.0249	J	1	0.0259	0.0104	03/18/21 16:41	SW 7471B
Selenium	2.10	J	1	4.07	1.74	03/18/21 07:02	SW 6020B
Silver	ND		1	0.582	0.349	03/18/21 07:02	SW 6020B

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds

METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-007
Client ID: SC-3
Date Collected: 03/12/21 14:30
Date Received: 03/15/21 16:25
Matrix-Units: Soil-mg/Kg (ppm)
% Moisture: 13.6
Batch #: 170

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
Arsenic	3.04		1	0.580	0.174	03/18/21 07:06	SW 6020B
Barium	56.7		1	0.580	0.290	03/18/21 07:06	SW 6020B
Cadmium	ND		1	0.580	0.348	03/18/21 07:06	SW 6020B
Chromium	13.1		1	0.580	0.290	03/18/21 07:06	SW 6020B
Lead	12.6		1	0.580	0.290	03/18/21 07:06	SW 6020B
Mercury	0.0151	J	1	0.0290	0.0116	03/18/21 16:44	SW 7471B
Selenium	1.84	J	1	4.06	1.74	03/18/21 07:06	SW 6020B
Silver	ND		1	0.580	0.348	03/18/21 07:06	SW 6020B

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds

METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-008
Client ID: SC-4
Date Collected: 03/12/21 14:10
Date Received: 03/15/21 16:25
Matrix-Units: Soil-mg/Kg (ppm)
% Moisture: 10.2
Batch #: 170

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
Arsenic	3.08		1	0.566	0.170	03/18/21 07:12	SW 6020B
Barium	61.0		1	0.566	0.283	03/18/21 07:12	SW 6020B
Cadmium	ND		1	0.566	0.340	03/18/21 07:12	SW 6020B
Chromium	13.8		1	0.566	0.283	03/18/21 07:12	SW 6020B
Lead	28.2		1	0.566	0.283	03/18/21 07:12	SW 6020B
Mercury	0.0309		1	0.0308	0.0123	03/18/21 16:47	SW 7471B
Selenium	2.17	J	1	3.96	1.70	03/18/21 07:12	SW 6020B
Silver	ND		1	0.566	0.340	03/18/21 07:12	SW 6020B

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds

METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-009
Client ID: SC-5
Date Collected: 03/12/21 14:50
Date Received: 03/15/21 16:25
Matrix-Units: Soil-mg/Kg (ppm)
% Moisture: 13.5
Batch #: 170

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
Arsenic	3.45		1	0.580	0.174	03/18/21 06:06	SW 6020B
Barium	84.2		1	0.580	0.290	03/18/21 06:06	SW 6020B
Cadmium	ND		1	0.580	0.348	03/18/21 06:06	SW 6020B
Chromium	21.9		1	0.580	0.290	03/18/21 06:06	SW 6020B
Lead	7.08		1	0.580	0.290	03/18/21 06:06	SW 6020B
Mercury	0.0285		1	0.0264	0.0106	03/18/21 16:49	SW 7471B
Selenium	3.22	J	1	4.06	1.74	03/18/21 06:06	SW 6020B
Silver	ND		1	0.580	0.348	03/18/21 06:06	SW 6020B

ND = Analyzed for but Not Detected at the MDL
J = Concentration detected at a value below the RL and above the MDL for target compounds

TCLP METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-005
Client ID: SC-1
Date Collected: 03/12/21 11:10
Date Received: 03/15/21 16:25
Matrix-Units: TCLP Leachate-mg/L (ppm)
% Moisture: NA
Batch #: 169

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
TCLP Arsenic	ND		1	0.100	0.0400	03/17/21 20:08	SW 1311/6020B
TCLP Barium	0.308		1	0.100	0.0500	03/17/21 20:08	SW 1311/6020B
TCLP Cadmium	ND		1	0.100	0.0700	03/17/21 20:08	SW 1311/6020B
TCLP Chromium	ND		1	0.100	0.0700	03/17/21 20:08	SW 1311/6020B
TCLP Lead	0.168		1	0.100	0.0600	03/17/21 20:08	SW 1311/6020B
TCLP Mercury	ND		1	0.0005	0.0002	03/19/21 16:20	SW 1311/7470A
TCLP Selenium	ND		1	1.00	0.300	03/17/21 20:08	SW 1311/6020B
TCLP Silver	ND		1	0.100	0.0600	03/17/21 20:08	SW 1311/6020B

ND = Analyzed for but Not Detected at the MDL

TCLP METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-006
Client ID: SC-2
Date Collected: 03/12/21 12:40
Date Received: 03/15/21 16:25
Matrix-Units: TCLP Leachate-mg/L (ppm)
% Moisture: NA
Batch #: 169

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
TCLP Arsenic	ND		1	0.100	0.0400	03/17/21 20:12	SW 1311/6020B
TCLP Barium	0.228		1	0.100	0.0500	03/17/21 20:12	SW 1311/6020B
TCLP Cadmium	ND		1	0.100	0.0700	03/17/21 20:12	SW 1311/6020B
TCLP Chromium	ND		1	0.100	0.0700	03/17/21 20:12	SW 1311/6020B
TCLP Lead	ND		1	0.100	0.0600	03/17/21 20:12	SW 1311/6020B
TCLP Mercury	ND		1	0.0005	0.0002	03/19/21 16:23	SW 1311/7470A
TCLP Selenium	ND		1	1.00	0.300	03/17/21 20:12	SW 1311/6020B
TCLP Silver	ND		1	0.100	0.0600	03/17/21 20:12	SW 1311/6020B

ND = Analyzed for but Not Detected at the MDL

TCLP METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-007
Client ID: SC-3
Date Collected: 03/12/21 14:30
Date Received: 03/15/21 16:25
Matrix-Units: TCLP Leachate-mg/L (ppm)
% Moisture: NA
Batch #: 169

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
TCLP Arsenic	ND		1	0.100	0.0400	03/17/21 20:18	SW 1311/6020B
TCLP Barium	0.225		1	0.100	0.0500	03/17/21 20:18	SW 1311/6020B
TCLP Cadmium	ND		1	0.100	0.0700	03/17/21 20:18	SW 1311/6020B
TCLP Chromium	ND		1	0.100	0.0700	03/17/21 20:18	SW 1311/6020B
TCLP Lead	ND		1	0.100	0.0600	03/17/21 20:18	SW 1311/6020B
TCLP Mercury	ND		1	0.0005	0.0002	03/19/21 16:25	SW 1311/7470A
TCLP Selenium	ND		1	1.00	0.300	03/17/21 20:18	SW 1311/6020B
TCLP Silver	ND		1	0.100	0.0600	03/17/21 20:18	SW 1311/6020B

ND = Analyzed for but Not Detected at the MDL

TCLP METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-008
Client ID: SC-4
Date Collected: 03/12/21 14:10
Date Received: 03/15/21 16:25
Matrix-Units: TCLP Leachate-mg/L (ppm)
% Moisture: NA
Batch #: 169

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
TCLP Arsenic	ND		1	0.100	0.0400	03/17/21 20:23	SW 1311/6020B
TCLP Barium	0.317		1	0.100	0.0500	03/17/21 20:23	SW 1311/6020B
TCLP Cadmium	ND		1	0.100	0.0700	03/17/21 20:23	SW 1311/6020B
TCLP Chromium	ND		1	0.100	0.0700	03/17/21 20:23	SW 1311/6020B
TCLP Lead	ND		1	0.100	0.0600	03/17/21 20:23	SW 1311/6020B
TCLP Mercury	ND		1	0.0005	0.0002	03/19/21 16:28	SW 1311/7470A
TCLP Selenium	ND		1	1.00	0.300	03/17/21 20:23	SW 1311/6020B
TCLP Silver	ND		1	0.100	0.0600	03/17/21 20:23	SW 1311/6020B

ND = Analyzed for but Not Detected at the MDL

TCLP METALS

Client/Project: FRENCH/119 OREGON ROAD

Lab ID: E21-01472-009
Client ID: SC-5
Date Collected: 03/12/21 14:50
Date Received: 03/15/21 16:25
Matrix-Units: TCLP Leachate-mg/L (ppm)
% Moisture: NA
Batch #: 169

Analyst: D. Kopcso

Compound	Result	Q	DF	RL	MDL	Date Analyzed	Method
TCLP Arsenic	ND		1	0.100	0.0400	03/17/21 19:17	SW 1311/6020B
TCLP Barium	0.184		1	0.100	0.0500	03/17/21 19:17	SW 1311/6020B
TCLP Cadmium	ND		1	0.100	0.0700	03/17/21 19:17	SW 1311/6020B
TCLP Chromium	ND		1	0.100	0.0700	03/17/21 19:17	SW 1311/6020B
TCLP Lead	ND		1	0.100	0.0600	03/17/21 19:17	SW 1311/6020B
TCLP Mercury	ND		1	0.0005	0.0002	03/19/21 16:12	SW 1311/7470A
TCLP Selenium	ND		1	1.00	0.300	03/17/21 19:17	SW 1311/6020B
TCLP Silver	ND		1	0.100	0.0600	03/17/21 19:17	SW 1311/6020B

ND = Analyzed for but Not Detected at the MDL

VOLATILE ORGANICS

Lab ID: BLKS210317-01
Client ID: BLKS210317-01
Date Received:
Date Analyzed: 03/17/2021
Data file: F4656.D 03/17/2021 11:38

GC/MS Column: DB-624
Sample wt/vol: 5.00g
Matrix-Units: Soil-mg/Kg
% Moisture: NA
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		0.001	0.000388
Chloromethane	ND		0.001	0.000426
Vinyl chloride	ND		0.001	0.000424
Bromomethane	ND		0.001	0.000598
Chloroethane	ND		0.001	0.000476
Trichlorofluoromethane	ND		0.001	0.000402
1,1-Dichloroethene	ND		0.001	0.000408
Acetone	ND		0.004	0.00255
Carbon disulfide	ND		0.001	0.000253
Methylene chloride	ND		0.002	0.00194
trans-1,2-Dichloroethene	ND		0.001	0.0004
Methyl tert-butyl ether (MTBE)	ND		0.001	0.000297
1,1-Dichloroethane	ND		0.001	0.000365
cis-1,2-Dichloroethene	ND		0.001	0.000346
2-Butanone (MEK)	ND		0.002	0.000951
Bromochloromethane	ND		0.001	0.000291
Chloroform	ND		0.001	0.000563
1,1,1-Trichloroethane	ND		0.001	0.000283
Carbon tetrachloride	ND		0.001	0.000276
1,2-Dichloroethane (EDC)	ND		0.001	0.000379
Benzene	ND		0.001	0.000217
Trichloroethene	ND		0.001	0.000292
1,2-Dichloropropane	ND		0.001	0.000234
1,4-Dioxane	ND		0.200	0.036
Bromodichloromethane	ND		0.001	0.0002
cis-1,3-Dichloropropene	ND		0.001	0.000215
4-Methyl-2-pentanone (MIBK)	ND		0.004	0.000734

VOLATILE ORGANICS

Lab ID: BLKS210317-01
Client ID: BLKS210317-01
Date Received:
Date Analyzed: 03/17/2021
Data file: F4656.D 03/17/2021 11:38

GC/MS Column: DB-624
Sample wt/vol: 5.00g
Matrix-Units: Soil-mg/Kg
% Moisture: NA
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.001	0.000229
trans-1,3-Dichloropropene	ND		0.001	0.000259
1,1,2-Trichloroethane	ND		0.001	0.000307
Tetrachloroethene	ND		0.001	0.000374
2-Hexanone	ND		0.004	0.00153
Dibromochloromethane	ND		0.001	0.000275
1,2-Dibromoethane (EDB)	ND		0.001	0.000198
Chlorobenzene	ND		0.001	0.000228
Ethylbenzene	ND		0.001	0.000276
Total Xylenes	ND		0.002	0.00107
Styrene	ND		0.002	0.000333
Bromoform	ND		0.001	0.000347
Isopropylbenzene	ND		0.002	0.00034
1,1,2,2-Tetrachloroethane	ND		0.001	0.000438
1,3-Dichlorobenzene	ND		0.001	0.000295
1,4-Dichlorobenzene	ND		0.001	0.000295
1,2-Dichlorobenzene	ND		0.001	0.000278
1,2-Dibromo-3-chloropropane	ND		0.001	0.000552
1,2,4-Trichlorobenzene	ND		0.001	0.000392
1,2,3-Trichlorobenzene	ND		0.001	0.000395
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.001	0.000442
Methyl acetate	ND		0.001	0.000307
Cyclohexane	ND		0.001	0.000455
Methylcyclohexane	ND		0.001	0.000291
1,3-Dichloropropene (cis- and trans-)	ND		0.001	0.000259

Total Target Compounds (52): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: BLKS210317-01
Client ID: BLKS210317-01
Date Received:
Date Analyzed: 03/17/2021
Date File: F4656.D

GC/MS Column: DB-624
Sample wt/vol: 5.00g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: NA

CAS #	Compound	Estimated Concentration	Q	Retention Time

No peaks detected

Total TICs = 0

D --- Dilution Performed
J --- Estimated concentration for TICs
N --- Presumptive evidence of a compound from the use of GC/MS NIST library search

VOLATILE ORGANICS

Lab ID: BLKM210318-01
Client ID: BLKM210318-01
Date Received:
Date Analyzed: 03/18/2021
Data file: L3532.D 03/18/2021 10:45

GC/MS Column: DB-624
Sample wt/vol: 0.05g
Matrix-Units: Soil-mg/Kg
% Moisture: NA
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		0.050	0.049
Chloromethane	ND		0.050	0.032
Vinyl chloride	ND		0.050	0.015
Bromomethane	ND		0.100	0.036
Chloroethane	ND		0.050	0.039
Trichlorofluoromethane	ND		0.050	0.045
1,1-Dichloroethene	ND		0.050	0.041
Acetone	ND		0.200	0.195
Carbon disulfide	ND		0.050	0.022
Methylene chloride	ND		0.100	0.099
trans-1,2-Dichloroethene	ND		0.050	0.028
Methyl tert-butyl ether (MTBE)	ND		0.050	0.027
1,1-Dichloroethane	ND		0.050	0.019
cis-1,2-Dichloroethene	ND		0.050	0.016
2-Butanone (MEK)	ND		0.100	0.070
Bromochloromethane	ND		0.050	0.017
Chloroform	ND		0.050	0.016
1,1,1-Trichloroethane	ND		0.050	0.011
Carbon tetrachloride	ND		0.050	0.012
1,2-Dichloroethane (EDC)	ND		0.050	0.027
Benzene	ND		0.050	0.014
Trichloroethene	ND		0.050	0.021
1,2-Dichloropropane	ND		0.050	0.011
1,4-Dioxane	ND		20.0	3.67
Bromodichloromethane	ND		0.050	0.029
cis-1,3-Dichloropropene	ND		0.050	0.022
4-Methyl-2-pentanone (MIBK)	ND		0.100	0.080

VOLATILE ORGANICS

Lab ID: BLKM210318-01
Client ID: BLKM210318-01
Date Received:
Date Analyzed: 03/18/2021
Data file: L3532.D 03/18/2021 10:45

GC/MS Column: DB-624
Sample wt/vol: 0.05g
Matrix-Units: Soil-mg/Kg
% Moisture: NA
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.050	0.017
trans-1,3-Dichloropropene	ND		0.050	0.024
1,1,2-Trichloroethane	ND		0.050	0.023
Tetrachloroethene	ND		0.050	0.027
2-Hexanone	ND		0.100	0.098
Dibromochloromethane	ND		0.050	0.038
1,2-Dibromoethane (EDB)	ND		0.050	0.026
Chlorobenzene	ND		0.050	0.028
Ethylbenzene	ND		0.050	0.027
Total Xylenes	ND		0.100	0.088
Styrene	ND		0.050	0.043
Bromoform	ND		0.050	0.042
Isopropylbenzene	ND		0.050	0.039
1,1,2,2-Tetrachloroethane	ND		0.100	0.079
1,3-Dichlorobenzene	ND		0.050	0.030
1,4-Dichlorobenzene	ND		0.050	0.039
1,2-Dichlorobenzene	ND		0.050	0.032
1,2-Dibromo-3-chloropropane	ND		0.100	0.057
1,2,4-Trichlorobenzene	ND		0.100	0.036
1,2,3-Trichlorobenzene	ND		0.100	0.051
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.050	0.035
Methyl acetate	ND		0.050	0.049
Cyclohexane	ND		0.100	0.055
Methylcyclohexane	ND		0.100	0.050
1,3-Dichloropropene (cis- and trans-)	ND		0.050	0.024

Total Target Compounds (52): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: BLKM210318-01
Client ID: BLKM210318-01
Date Received:
Date Analyzed: 03/18/2021
Data file: L3532.D 03/18/2021 10:45

GC/MS Column: DB-624
Sample wt/vol: 0.05g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: NA

CAS #	Compound	Estimated Concentration	Q	Retention Time
	No peaks detected			

Total TICs = 0

VOLATILE ORGANICS

Lab ID: BLKA210319
Client ID: BLKA210319
Date Received: NA
Date Analyzed: 03/19/2021
Data file: K8370.D 03/19/2021 13:05

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Dichlorodifluoromethane	ND		1.00	0.490
Chloromethane	ND		0.500	0.317
Vinyl chloride	ND		1.00	0.149
Bromomethane	ND		1.00	0.356
Chloroethane	ND		0.500	0.390
Trichlorofluoromethane	ND		0.500	0.445
1,1-Dichloroethene	ND		0.500	0.409
Acetone	ND		2.00	1.95
Carbon disulfide	ND		1.00	0.220
Methylene chloride	ND		1.00	0.990
trans-1,2-Dichloroethene	ND		0.500	0.281
Methyl tert-butyl ether (MTBE)	ND		0.500	0.265
1,1-Dichloroethane	ND		0.500	0.193
cis-1,2-Dichloroethene	ND		0.500	0.156
2-Butanone (MEK)	ND		2.00	0.701
Bromochloromethane	ND		1.00	0.174
Chloroform	ND		0.500	0.163
1,1,1-Trichloroethane	ND		0.500	0.105
Carbon tetrachloride	ND		0.500	0.119
1,2-Dichloroethane (EDC)	ND		0.500	0.271
Benzene	ND		0.500	0.144
Trichloroethene	ND		0.500	0.205
1,2-Dichloropropane	ND		0.500	0.110
1,4-Dioxane	ND		100	36.7
Bromodichloromethane	ND		0.500	0.286
cis-1,3-Dichloropropene	ND		1.00	0.222
4-Methyl-2-pentanone (MIBK)	ND		1.00	0.795

VOLATILE ORGANICS

Lab ID: BLKA210319
Client ID: BLKA210319
Date Received: NA
Date Analyzed: 03/19/2021
Data file: K8370.D 03/19/2021 13:05

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Toluene	ND		0.500	0.174
trans-1,3-Dichloropropene	ND		1.00	0.241
1,1,2-Trichloroethane	ND		0.500	0.232
Tetrachloroethene	ND		0.500	0.270
2-Hexanone	ND		1.00	0.975
Dibromochloromethane	ND		0.500	0.381
1,2-Dibromoethane (EDB)	ND		0.500	0.260
Chlorobenzene	ND		0.500	0.278
Ethylbenzene	ND		0.500	0.270
Total Xylenes	ND		1.00	0.881
Styrene	ND		0.500	0.432
Bromoform	ND		0.500	0.423
Isopropylbenzene	ND		0.500	0.386
1,1,2,2-Tetrachloroethane	ND		1.00	0.791
1,3-Dichlorobenzene	ND		0.500	0.296
1,4-Dichlorobenzene	ND		0.500	0.392
1,2-Dichlorobenzene	ND		0.500	0.324
1,2-Dibromo-3-chloropropane	ND		1.00	0.572
1,2,4-Trichlorobenzene	ND		1.00	0.362
1,2,3-Trichlorobenzene	ND		1.00	0.513
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.00	0.347
Methyl acetate	ND		0.500	0.487
Cyclohexane	ND		1.00	0.548
Methylcyclohexane	ND		1.00	0.500
1,3-Dichloropropene (cis- and trans-)	ND		1.00	0.241

Total Target Compounds (52): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

VOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: BLKA210319
Client ID: BLKA210319
Date Received: NA
Date Analyzed: 03/19/2021
Data file: K8370.D 03/19/2021 13:05

GC/MS Column: DB-624
Sample wt/vol: 5mL
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time
	No peaks detected			

Total TICs = 0

Volatiles (8011)

Lab ID: BLKA210322-05
Client ID:
Date Received: NA
Date Extracted: 03/22/2021
Date Analyzed: 03/22/2021
Data file: P2853.D

GC Column: DB-5/DB1701P
Sample wt/vol: 35.0ml
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

Compound	Concentration	Q	RL	MDL
1,2-Dibromoethane (EDB)	ND		0.00486	0.00429
1,2-Dibromo-3-chloropropane	ND		0.00486	0.00429
1,2,3-Trichloropropane	ND		0.00971	0.00857

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS

Lab ID: BLKS210317-01
Client ID: .
Date Received: NA
Date Extracted: 03/17/2021
Date Analyzed: 03/17/2021
Data file: C7105.D 03/17/2021 16:37

GC/MS Column: DB-5
Sample wt/vol: 15.0g
Matrix-Units: Soil-mg/Kg
% Moisture: NA
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Benzaldehyde	ND		0.033	0.027
Phenol	ND		0.033	0.033
Bis(2-chloroethyl) ether	ND		0.033	0.027
2-Chlorophenol	ND		0.033	0.027
2-Methylphenol	ND		0.033	0.020
2,2'-Oxybis(1-Chloropropane)	ND		0.033	0.032
4-Methylphenol **	ND		0.033	0.024
N-Nitrosodi-n-propylamine	ND		0.033	0.024
Acetophenone	ND		0.033	0.028
Hexachloroethane	ND		0.033	0.027
Nitrobenzene	ND		0.033	0.022
Isophorone	ND		0.033	0.025
2-Nitrophenol	ND		0.033	0.031
2,4-Dimethylphenol	ND		0.033	0.020
Bis(2-chloroethoxy) methane	ND		0.033	0.027
2,4-Dichlorophenol	ND		0.033	0.027
Naphthalene	ND		0.033	0.027
4-Chloroaniline	ND		0.033	0.023
Hexachlorobutadiene	ND		0.033	0.021
Caprolactam	ND		0.333	0.026
4-Chloro-3-methylphenol	ND		0.033	0.023
2-Methylnaphthalene	ND		0.033	0.022
Hexachlorocyclopentadiene	ND		0.033	0.029
2,4,6-Trichlorophenol	ND		0.033	0.027
2,4,5-Trichlorophenol	ND		0.033	0.029
1,1'-Biphenyl	ND		0.033	0.028
2-Chloronaphthalene	ND		0.033	0.026
2-Nitroaniline	ND		0.033	0.026
Dimethyl phthalate	ND		0.033	0.025

SEMIVOLATILE ORGANICS

Lab ID: BLKS210317-01
Client ID: .
Date Received: NA
Date Extracted: 03/17/2021
Date Analyzed: 03/17/2021
Data file: C7105.D 03/17/2021 16:37

GC/MS Column: DB-5
Sample wt/vol: 15.0g
Matrix-Units: Soil-mg/Kg
% Moisture: NA
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
2,6-Dinitrotoluene	ND		0.033	0.032
Acenaphthylene	ND		0.033	0.027
3-Nitroaniline	ND		0.033	0.025
Acenaphthene	ND		0.033	0.028
2,4-Dinitrophenol	ND		0.033	0.032
4-Nitrophenol	ND		0.033	0.031
2,4-Dinitrotoluene	ND		0.033	0.030
Dibenzofuran	ND		0.033	0.025
Diethyl phthalate	ND		0.033	0.020
Fluorene	ND		0.033	0.029
4-Chlorophenyl phenyl ether	ND		0.033	0.028
4-Nitroaniline	ND		0.033	0.021
1,2,4,5-Tetrachlorobenzene	ND		0.033	0.024
2,3,4,6-Tetrachlorophenol	ND		0.033	0.029
4,6-Dinitro-2-methylphenol	ND		0.033	0.032
N-Nitrosodiphenylamine	ND		0.033	0.032
4-Bromophenyl phenyl ether	ND		0.033	0.023
Hexachlorobenzene	ND		0.033	0.024
Atrazine	ND		0.033	0.025
Pentachlorophenol	ND		0.033	0.022
Phenanthrene	ND		0.033	0.032
Anthracene	ND		0.033	0.033
Carbazole	ND		0.033	0.030
Di-n-butyl phthalate	ND		0.033	0.028
Fluoranthene	ND		0.033	0.032
Pyrene	ND		0.033	0.030
Butyl benzyl phthalate	ND		0.033	0.031
3,3'-Dichlorobenzidine	ND		0.033	0.030
Benzo[a]anthracene	ND		0.033	0.020
Chrysene	ND		0.033	0.031
Bis(2-ethylhexyl) phthalate	ND		0.033	0.030
Di-n-octyl phthalate	ND		0.033	0.031
Benzo[b]fluoranthene	ND		0.033	0.032
Benzo[k]fluoranthene	ND		0.033	0.028
Benzo[a]pyrene	ND		0.033	0.029
Indeno[1,2,3-cd]pyrene	ND		0.033	0.032
Dibenz[a,h]anthracene	ND		0.033	0.031
Benzo[g,h,i]perylene	ND		0.033	0.033
Dinitrotoluene (2,4- and 2,6-)	ND		0.033	0.032

Total Target Compounds (68): 0

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

** - represents the total of 3+4-Methylphenol
B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: BLKS210317-01
Client ID: .
Date Received: NA
Date Extracted: 03/17/2021
Date Analyzed: 03/17/2021
Data file: C7105.D 03/17/2021 16:37

GC/MS Column: DB-5
Sample wt/vol: 15.0g
Matrix-Units: Soil-mg/Kg
Dilution Factor: 1
% Moisture: NA

CAS #	Compound	Estimated Concentration	Q	Retention Time

No peaks detected

Total TICs = 0

SEMIVOLATILE ORGANICS

Lab ID: BLKA210317-05
Client ID: .
Date Received: NA
Date Extracted: 03/17/2021
Date Analyzed: 03/23/2021
Data file: B7972.D 03/23/2021 18:43
SIM Data file: B7962.D 03/23/2021 16:09

GC/MS Column: DB-5
Sample wt/vol: 500ml
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
Benzaldehyde	ND		1.00	0.267
Bis(2-chloroethyl) ether	ND		1.00	0.268
2,2'-Oxybis(1-Chloropropane)	ND		1.00	0.371
N-Nitrosodi-n-propylamine	ND		1.00	0.208
Acetophenone	ND		1.00	0.243
Hexachloroethane	ND		1.00	0.214
Nitrobenzene	ND		1.00	0.428
Isophorone	ND		1.00	0.313
Bis(2-chloroethoxy) methane	ND		1.00	0.480
Naphthalene	ND		1.00	0.275
4-Chloroaniline	ND		1.00	0.299
Hexachlorobutadiene	ND		1.00	0.183
Caprolactam	ND		1.00	0.187
2-Methylnaphthalene	ND		1.00	0.210
Hexachlorocyclopentadiene	ND		1.00	0.193
1,1'-Biphenyl	ND		1.00	0.273
2-Chloronaphthalene	ND		1.00	0.249
2-Nitroaniline	ND		1.00	0.318
Dimethyl phthalate	ND		1.00	0.384

SEMIVOLATILE ORGANICS

Lab ID: BLKA210317-05
Client ID: .
Date Received: NA
Date Extracted: 03/17/2021
Date Analyzed: 03/23/2021
Data file: B7972.D 03/23/2021 18:43
SIM Data file: B7962.D 03/23/2021 16:09

GC/MS Column: DB-5
Sample wt/vol: 500ml
Matrix-Units: Aqueous-µg/L
% Moisture: 100
Dilution Factor: 1

Compound	Concentration	Q	RL	MDL
2,6-Dinitrotoluene	ND		1.00	0.153
Acenaphthylene	ND		1.00	0.160
3-Nitroaniline	ND		1.00	0.201
Acenaphthene	ND		1.00	0.296
2,4-Dinitrotoluene	ND		1.00	0.142
Dibenzofuran	ND		1.00	0.317
Diethyl phthalate	ND		1.00	0.353
Fluorene	ND		1.00	0.294
4-Chlorophenyl phenyl ether	ND		1.00	0.313
4-Nitroaniline	ND		1.00	0.245
1,2,4,5-Tetrachlorobenzene	ND		1.00	0.731
N-Nitrosodiphenylamine	ND		1.00	0.135
4-Bromophenyl phenyl ether	ND		1.00	0.293
Hexachlorobenzene *	ND		0.020	0.019
Atrazine	ND		1.00	0.288
Phenanthrene	ND		1.00	0.246
Anthracene	ND		1.00	0.265
Carbazole	ND		1.00	0.264
Di-n-butyl phthalate	ND		1.00	0.142
Fluoranthene	ND		1.00	0.314
Pyrene	ND		1.00	0.328
Butyl benzyl phthalate	ND		1.00	0.480
3,3'-Dichlorobenzidine	ND		1.00	0.402
Benzo[a]anthracene *	ND		0.100	0.098
Chrysene	ND		1.00	0.467
Bis(2-ethylhexyl) phthalate	ND		1.00	0.507
Di-n-octyl phthalate	ND		1.00	0.434
Benzo[b]fluoranthene *	ND		0.100	0.092
Benzo[k]fluoranthene *	ND		0.100	0.089
Benzo[a]pyrene *	ND		0.100	0.087
Indeno[1,2,3-cd]pyrene *	ND		0.100	0.088
Dibenz[a,h]anthracene *	ND		0.100	0.094
Benzo[g,h,i]perylene	ND		1.00	0.326
Dinitrotoluene (2,4- and 2,6-)	ND		1.00	0.153

Total Target Compounds (53): 0

* - RL & MDL from SIM run

D --- Dilution Performed
J --- Value Less than RL & greater than MDL
E --- Exceeds upper level of Calibration curve

B --- Compound detected in Blank
C --- Common laboratory contamination

SEMIVOLATILE ORGANICS
Tentatively Identified Compounds

Lab ID: BLKA210317-05
Client ID: .
Date Received: NA
Date Extracted: 03/17/2021
Date Analyzed: 03/23/2021
Data file: B7972.D 03/23/2021 18:43

GC/MS Column: DB-5
Sample wt/vol: 500ml
Matrix-Units: Aqueous-µg/L
Dilution Factor: 1
% Moisture: 100

CAS #	Compound	Estimated Concentration	Q	Retention Time

No peaks detected

Total TICs = 0

INTEGRATED ANALYTICAL LABORATORIES

TPH-DRO

Lab ID:	BLKS210316-04	GC Column:	RTX-5
Client ID:	TDRO	Sample wt/vol:	5.0g
Date Received:	NA	Matrix-Units:	Soil-mg/Kg (ppm)
Date Extracted:	03/16/2021	Dilution Factor:	1
Date Analyzed:	03/17/2021	% Moisture:	0
Data File:	QB6926.D		

Compound	Concentration	Q	RL	MDL
TPH-DRO	ND		200	160

E21-01472

METALS QUALITY CONTROL

BLANK 1 RESULTS SUMMARY

03/18/2021 03:15 AM

Batch (Page) #: 170
Associated Lab Case for Blank 1: E21-01448, E21-01454, E21-01466, E21-01468, E21-01472

Matrix: Soil Unit: ppm (mg/kg) Method: 6020B/7471B

ANALYTE	1/2 Sample RL	REAGENT BLANK BLKS210317-01
Aluminum	2.50	ND
Antimony	0.250	ND
Arsenic	0.250	ND
Barium	0.250	ND
Beryllium	0.250	ND
Cadmium	0.250	ND
Calcium	25.0	ND
Chromium	0.250	ND
Cobalt	0.250	ND
Copper	0.250	ND
Iron	25.0	ND
Lead	0.250	ND
Magnesium	25.0	ND
Manganese	0.250	ND
Mercury	0.013	ND
Nickel	0.250	ND
Potassium	25.0	ND
Selenium	1.75	ND
Silver	0.250	ND
Sodium	25.0	ND
Thallium	0.250	ND
Vanadium	0.250	ND
Zinc	2.50	ND

Associated Sample for Blank 1:
01448-001~003,008,012,015; 01454-003,007,011,015
01454-019; 01466-002,004~005; 01468-001; 01472-005
01472-006~009

E21-01472

METALS QUALITY CONTROL

BLANK 1 RESULTS SUMMARY

03/17/2021 07:12 PM

Batch (Page) #: 169
Associated Lab Case for Blank 1: E21-01472

Matrix: TCLP Unit: ppm (mg/L) Method: 1311/6020B/7470A

ANALYTE	1/2 Sample RL	REAGENT BLANK BLKT210317-01
Arsenic	0.050	ND
Barium	0.050	ND
Cadmium	0.050	ND
Chromium	0.050	ND
Lead	0.050	ND
Mercury	0.00025	ND
Selenium	0.500	ND
Silver	0.050	ND

Associated Sample for Blank 1: 01472-005~009

SAMPLE TRACKING

IAL
Integrated Analytical Laboratories LLC

Integrated Analytical Labs
273 Franklin Road
Randolph, NJ 07869

Chain of Custody Record

Contact Us: 973-361-4252
Fax: 973-989-5288
Web: www.ialonline.com

Customer Information

Company: French & Parrello
Address: 43A Newburgh Rd
Hackettstown, NJ
Telephone #: 732-312-9200
Fax #:
Project Manager: N.J.
EMAIL Address:
Project Name: 119 Oregon Road
Project Location (State): NY
Bottle Order #:
☐ "Report to"/"Invoice To" same as above
Sampled by:

COMPLETED BY IAL:
____ Field Sampling ____ Equipment Rental

Reporting Information

REPORT TO:
Address:
Neil.Jiorle@frenchengineers.com
Attn:
FAX #
INVOICE TO:
Address:
Attn:
PO # 16875.002
Quote #

Sample Matrix

DW - Drinking Water
WW - Waste Water
GW - Groundwater
SW - Surface Water
LIQ - Liquid (specify)
M - Multiphasic
OI - Oil
S - Soil
SED - Sediment
SOL - Solid (specify)
SL - Sludge
W - Wipe

"Rush TAT Charge

24 hr - 100%...
48 hr - 75%....
72 hr - 50%....
96 hr - 35%....
5 day - 25%....
6-9 day - 10%

Deliverables

NJ, CT, PA
☐ Results Only (Level I)
☐ Reduced (Level II/III)
☐ Regulatory/ Full* (Level IV)

NY
☒ ASP Category A
☐ ASP Category B*

EDDs

☐ NJ SRP
☒ NYSDEC EQuIS
☐ lab approved custom EDD
☐ NO EDD REQ'D

Concentrations Expected:

Low Med High
Known Hazard:
☐ YES ☐ NO
Describe:

Turn-Around Time (TAT)

Standard (10 business days) Verbal
Rush/date needed (only if pre-approved)** 5DAY
Hard Copy: Std 3 week Other - call for price

Petroleum Hydrocarbons - Selection is REQUIRED

☐ NJ EPH-DRO - Category 1
☐ NJ EPH-C40 - Category 2
☐ NJ EPH-Fractionated - Cat 2
TAT for PHC, if other than 2 weeks:
☐ CT ETPH
☐ DRO-8015

Regulatory Requirement

New Jersey	New York
☐ GWQS	☒ AWQS (TOGS Table 1)
☐ IGW	☒ GWEL (TOGS Table 5)
☐ SRS	☒ Part 375-6.8(a) - Unrestricted
☐ Ecological	☒ Part 375-6.8(b) - Restricted
☐ DW	☐ CP-51 Table 2 or 3 (selection required)
☐ SPLP	

Other States / Criteria
☐ Pennsylvania Act 2
☐ CT RCSA 22a-133k1-k3
☐ TSCA PCBs
OTHER Regulatory Requirements - specify in comments

SAMPLE INFORMATION

ANALYTICAL PARAMETERS (please note if contingent)

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCLP Metals	TCL - VOCs	PAHs	TPHC	Total METALS	Sample Specific Notes:
SI-1	12-12.5'	3/12/21	1100	SOIL	5	1		X	X	X		
SI-2	14-14.5	3/12/21	10:05	SOIL	5	2		X	X	X		
SI-3	14-14.5	3/12/21	1225	SOIL	5	3		X	X	X		
SI-4	6.0-6.5	3/12/21	1325	SOIL	5	4		X		X		
SC-1	-	3/12/21	11:10	SOIL	1	5	X				X	
SC-2	-	3/12/21	1240	SOIL	1	6	X				X	
SC-3	-	3/12/21	1430	SOIL	1	7	X				X	
SC-4	-	3/12/21	1410	SOIL	1	8	X				X	

Samples previously analyzed by IAL? YES / NO

Preservative Code: 1 = None, 2 = HCl, 3 = HNO3, 4 = MeOH, 5 = NaOH, 6 = H2SO4, 7 = Other

Container Code: A = Amber Glass, B = Plastic, C = Vial, D = Glass, E = EnCore, T = Terracore

Preservative (use code)
Container Type (use code)

Special Instructions/QC Requirements & Comments:

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time (TAT) will not start until any ambiguities have been resolved. TAT starts the following day if samples rec'd at lab ≥ 5PM. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY IAL'S TERMS & CONDITIONS (found on rear of pink copy).

IAL Rev 1/2019

Carrier (check one):
☐ IAL Courier
☐ Client Courier
☐ FedEx/UPS***
***Tracking #:

Relinquished by (Signature and Company)	Date	Time	Received by (Signature and Company)	Date	Time
	3/15/21	4:25		3/15/21	1625

FOR LAB USE ONLY
SDG #: 1472
Cooler Temp: 5 °C

PAGE: 1 of 2

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

Certification IDs: TNI (TNI01284); CT (PH-0699); NJ (14751); NY (11402); PA (68-00773).

Integrated Analytical Labs
273 Franklin Road
Randolph, NJ 07869

Chain of Custody Record

Contact Us: 973-361-4252
Fax: 973-989-5288
Web: www.ialonline.com

INTEGRATED ANALYTICAL LABORATORIES, LLC

FINALIZED 03/29/2021

Customer Information

Company: FRENCH + PARRELLO
Address: 43A Newburgh Rd
Hackettstown NJ
Telephone #: 732-312-9800
Fax #:
Project Manager: Niel Jiorle
EMAIL Address:
Project Name: 119 Oregon Rd.
Project Location (State): NY
Bottle Order #:
☐ "Report to"/"Invoice To" same as above
Sampled by:

COMPLETED BY IAL:
____ Field Sampling ____ Equipment Rental

Reporting Information

REPORT TO:
Address:
Niel.Jiorle@frenginee rs.com
Attn:
FAX #
INVOICE TO:
Address:
Attn:
PO # 16875.002
Quote #

Sample Matrix

DW - Drinking Water; WW - Waste Water; GW - Groundwater; SW - Surface Water; LIQ - Liquid (specify); M - Multiphasic; OI - Oil; S - Soil; SED - Sediment; SOL - Solid (specify); SL - Sludge; W - Wipe

**Rush TAT Charge

24 hr - 100%...
48 hr - 75%....
72 hr - 50%....
96 hr - 35%....
5 day - 25%....
6-9 day - 10%

Deliverables

NJ, CT, PA	NY
☐ Results Only (Level I)	☒ ASP Category A
☒ Reduced (Level II/III)	☐ ASP Category B*
☐ Regulatory/ Full* (Level IV)	

EDDs

☐ NJ SRP
☑ NYSDEC EQuIS
☐ lab approved custom EDD
☐ NO EDD REQ'D

Concentrations Expected:

Low Med High

Known Hazard: ☐ YES ☐ NO

Describe:

Turn-Around Time (TAT)

Standard (10 business days) Verbal
Rush/date needed (only if pre-approved)** 5 DAY
Hard Copy: Std 3 week Other - call for price

Petroleum Hydrocarbons - Selection is REQUIRED

☐ NJ EPH-DRO - Category 1
☐ NJ EPH-C40 - Category 2
☐ NJ EPH-Fractionated - Cat 2
☐ CT ETPH
☐ DRO-8015

TAT for PHC, if other than 2 weeks:

Regulatory Requirement

New Jersey	New York
☒ GWQS	☐ AWQS (TOGS Table 1)
☒ IGW	☑ GWEL (TOGS Table 5)
☐ SRS	☑ Part 375-6.8(a) - Unrestricted
☐ Ecological	☑ Part 375-6.8(b) - Restricted
☐ DW	☐ CP-51 Table 2 or 3 (selection required)
☐ SPLP	

Other States / Criteria

☐ Pennsylvania Act 2
☐ CT RCSA 22a-133k1-k3
☐ TSCA PCBs

OTHER Regulatory Requirements - specify in comments

Sample Specific Notes:

ANALYTICAL PARAMETERS (please note if contingent)

Client ID	Depth (ft only)	Sampling Date	Sampling Time	Matrix	# containers	IAL #	TCLP metal	TCL-VOCs	BN* PAHs	TOTAL METALS
SC-5	-	3/12/21	1450	SOIL	1	9	+			X
TWP-SI-1	-	3/12/21	1545	GW	7	10		X	X	
TWP-SI-2	-	3/12/21	1545	GW	7	11		X	X	

Samples previously analyzed by IAL? YES / NO

Preservative Code: 1 = None; 2 = HCl; 3 = HNO3; 4 = MeOH; 5 = NaOH; 6 = H2SO4; 7 = Other

Container Code: A = Amber Glass; B = Plastic; C = Vial; D = Glass; E = EnCore; T = Terracore

Preservative (use code)
Container Type (use code)

Special Instructions/QC Requirements & Comments:
*PAHS ONLY

Carrier (check one):
☐ IAL Courier
☐ Client Courier
☐ FedEx/UPS***
***Tracking #:

Please print legibly and fill out completely. Samples cannot be processed and the turnaround time (TAT) will not start until any ambiguities have been resolved. TAT starts the following day if samples rec'd at lab ≥ 5PM. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY IAL'S TERMS & CONDITIONS (found on rear of pink copy).

Relinquished by (Signature and Company)	Date	Time	Received by (Signature and Company)	Date	Time
	3/15/21	925		3/15/21	1625

FOR LAB USE ONLY
SDG #: 1472
Cooler Temp: 5 °C

PAGE: 2 of 2

IAL Rev 1/2019

LAB COPIES - WHITE & YELLOW; CLIENT COPY - PINK

Certification IDs: TNI (TNI01284); CT (PH-0699); NJ (14751); NY (11402); PA (68-00773).

Mar 17, 2021 @ 09:12

PROJECT INFORMATION

RUSH

E21-01472: 119 OREGON ROAD

To: Neil Jiorle
French & Parrello
Fax: 732-740-2229 cell
EMail: Neil.Jiorle@FPAengineers.com

Report To

French & Parrello
1800 Route 34
Suite 101
Wall, NJ 07719
Attn: Neil Jiorle

Bill To

French & Parrello
1800 Route 34
Suite 101
Wall, NJ 07719
Attn: FPA Remittance Group

Report Format	P.O. #	Received At Lab	PHC Due	Verbal Due	Hardcopy Due
Category A	16875.002	Mar 15, 2021 @ 16:25	Mar 22, 2021	Mar 22, 2021	Apr 05, 2021 *

* Any ***Conditional or Hold*** status will delay final hardcopy report sent date.

Diskette Req. NYSDEC

Criteria Requirement: NY Part 375-6.8(UUSCO+RUSCO)

Lab ID	Client Sample ID	Depth	Sampling Time	Matrix	Unit	Field pH/Temp
01472-001	SI-1	12/12.5	03/12/21@11:00	Soil	mg/Kg (ppm)	
01472-002	SI-2	14/14.5	03/12/21@10:05	Soil	mg/Kg (ppm)	
01472-003	SI-3	14/14.5	03/12/21@12:35	Soil	mg/Kg (ppm)	
01472-004	SI-4	6.0/6.5	03/12/21@13:25	Soil	mg/Kg (ppm)	
01472-005	SC-1	NA	03/12/21@11:10	Soil	mg/Kg (ppm)	
01472-006	SC-2	NA	03/12/21@12:40	Soil	mg/Kg (ppm)	
01472-007	SC-3	NA	03/12/21@14:30	Soil	mg/Kg (ppm)	
01472-008	SC-4	NA	03/12/21@14:10	Soil	mg/Kg (ppm)	
01472-009	SC-5	NA	03/12/21@14:50	Soil	mg/Kg (ppm)	
01472-010	TWP-SI-1	NA	03/12/21@15:15	Aqueous	ug/L (ppb)	
01472-011	TWP-SI-2	NA	03/12/21@15:45	Aqueous	ug/L (ppb)	

* No Cert = IAL does not hold certification for this test/method

Sample #	Test	Status	Analytical Method	TAT	Holding Time Expires
001	TCL VO + 15	Analyze	8260D	RUSH 1 WK	3/26/2021
	TCL/PAH	Analyze	8270E	RUSH 1 WK	3/26/2021
	TPH-DRO	Analyze	8015D	RUSH 1 WK	3/26/2021
002	TCL VO + 15	Analyze	8260D	RUSH 1 WK	3/26/2021
	TCL/PAH	Analyze	8270E	RUSH 1 WK	3/26/2021
	TPH-DRO	Analyze	8015D	RUSH 1 WK	3/26/2021
003	TCL VO + 15	Analyze	8260D	RUSH 1 WK	3/26/2021
	TCL/PAH	Analyze	8270E	RUSH 1 WK	3/26/2021
	TPH-DRO	Analyze	8015D	RUSH 1 WK	3/26/2021
004	TCL VO + 15	Analyze	8260D	RUSH 1 WK	3/26/2021
	TPH-DRO	Analyze	8015D	RUSH 1 WK	3/26/2021

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Mar 17, 2021 @ 09:12

IAL
Integrated Analytical Laboratories LLC

PROJECT INFORMATION

RUSH

E21-01472: 119 OREGON ROAD

Sample #	Test	Status	Analytical Method	TAT	Holding Time Expires
005	TCLP Metals	Analyze	1311/6020B/7470A	RUSH 1 WK	4/9/2021
	RCRA Metals	Analyze	6020B/7471B	RUSH 1 WK	4/9/2021
006	RCRA Metals	Analyze	6020B/7471B	RUSH 1 WK	4/9/2021
	TCLP Metals	Analyze	1311/6020B/7470A	RUSH 1 WK	4/9/2021
007	RCRA Metals	Analyze	6020B/7471B	RUSH 1 WK	4/9/2021
	TCLP Metals	Analyze	1311/6020B/7470A	RUSH 1 WK	4/9/2021
008	TCLP Metals	Analyze	1311/6020B/7470A	RUSH 1 WK	4/9/2021
	RCRA Metals	Analyze	6020B/7471B	RUSH 1 WK	4/9/2021
009	RCRA Metals	Analyze	6020B/7471B	RUSH 1 WK	4/9/2021
	TCLP Metals	Analyze	1311/6020B/7470A	RUSH 1 WK	4/9/2021
010	Low Level TCL VO for 8260+8011 + 15	Analyze	8260D/8011	RUSH 1 WK	3/26/2021
	TCL/PAH + SIM	Analyze	8270E SIM	RUSH 1 WK	3/19/2021
011	Low Level TCL VO for 8260+8011 + 15	Analyze	8260D/8011	RUSH 1 WK	3/26/2021
	TCL/PAH + SIM	Analyze	8270E SIM	RUSH 1 WK	3/19/2021

Project Notes:

NOTE 2 taken by kfalconer on 03/16/2021 09:26

PER BRENDAN DUFFY: TCLVO+15, TOTAL METALS = RCRA 8.

PER NEIL JIORLE, TPHC = TPH-DRO.

NOTE 3 taken by kfalconer on 03/16/2021 09:28

QC REQUIREMENTS

SAMPLES 001 - 009 - NY PART 375-6.8(UUSC+RUSCO)

SAMPLES 010 - 011 - NY TOGS Tbl1 & Tbl 5

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SAMPLE RECEIPT VERIFICATION

CASE NO: **E 21** **01472** CLIENT: F+P

COOLER TEMPERATURE: 2° - 6°C: ✓ (See Chain of Custody)

COC: (COMPLETE) / INCOMPLETE

Comments

KEY

✓ = YES/NA

✗ = NO

VOA received: ☐ Encore ☐ IGW - Methanol

(check one) ☒ Terra Core ☐ No Preservative

✓	Bottles Intact	
✓	no-Missing Bottles	
✓	no-Extra Bottles	
✓	Sufficient Sample Volume	
✓	no-headspace/bubbles in VOs	
✓	Labels intact/correct	
✗	pH Check[1] (refer to Receipt pH Log)	
✓	Correct bottles/preservative	
✓	Sufficient Holding/Prep Time[1]	
☐	Multiphasic Sample	
☐	Sample to be Subcontracted	
✓	**Chain of Custody is Clear**	

[1] All samples with "Analyze Immediately" holding times will be analyzed by this laboratory past the holding time. This includes but is not limited to the following tests: pH, Temperature, Free Residual Chlorine, Total Residual Chlorine, Dissolved Oxygen, Sulfite.

ADDITIONAL COMMENTS:

SAMPLE(S) VERIFIED BY: INITIAL AF DATE 3/15/21

CORRECTIVE ACTION REQUIRED: **YES** ☐ (SEE BELOW) **NO** ☒

If COC is **NOT** clear, ***STOP*** until you get client to authorize/clarify work.

CLIENT NOTIFIED: YES ☐ Date/ Time: _____ NO ☐

PROJECT CONTACT:

SUBCONTRACTED LAB:

DATE SHIPPED:

ADDITIONAL COMMENTS:

VERIFIED/TAKEN BY: INITIAL KG DATE 3/16/21

Rev 2 2/11/2021

Laboratory Custody Chronicle

IAL Case No.
E21-01472

Client French & Parrello

Project 119 OREGON ROAD

Received On 3/15/2021@16:25

Department: Volatiles			***Prep. Date***	***Analyst***	***Analysis Date***	***Analyst***
Low Level TCL VO for 8260+8011 + 15	01472-010	Aqueous	n/a	n/a	3/19/21	Barbara
"	-011	"	n/a	n/a	3/19/21	Barbara
TCL VO + 15	-001	Soil	n/a	n/a	3/17/21	Xing
"	-002	"	n/a	n/a	3/18/21	Mei
"	-003	"	n/a	n/a	3/17/21	Xing
"	-004	"	n/a	n/a	3/17/21	Xing

Department: Semivolatiles			***Prep. Date***	***Analyst***	***Analysis Date***	***Analyst***
TCL/PAH	-001	Soil	3/17/21	Frank L.	3/17/21	Eleanor
"	-002	"	3/17/21	Frank L.	3/17/21	Eleanor
"	-003	"	3/17/21	Frank L.	3/17/21	Eleanor
TCL/PAH + SIM	-010	Aqueous	3/17/21	Frank L.	3/23/21	Eleanor
"	-011	"	3/17/21	Frank L.	3/23/21	Eleanor

Department: GC			***Prep. Date***	***Analyst***	***Analysis Date***	***Analyst***
TPH-DRO	-001	Soil	3/16/21	Archimede	3/17/21	Chad
"	-002	"	3/16/21	Archimede	3/17/21	Chad
"	-003	"	3/16/21	Archimede	3/17/21	Chad
"	-004	"	3/16/21	Archimede	3/17/21	Chad

Department: Metals			***Prep. Date***	***Analyst***	***Analysis Date***	***Analyst***
RCRA Metals	-005	Soil	3/17/21	Adrienne	3/18/21	Danielle
"	-006	"	3/17/21	Adrienne	3/18/21	Danielle
"	-007	"	3/17/21	Adrienne	3/18/21	Danielle
"	-008	"	3/17/21	Adrienne	3/18/21	Danielle
"	-009	"	3/17/21	Adrienne	3/18/21	Danielle
TCLP Metals	-005	Soil	3/17/21	Adrienne	3/17/21	Danielle
"	-006	"	3/17/21	Adrienne	3/17/21	Danielle
"	-007	"	3/17/21	Adrienne	3/17/21	Danielle
"	-008	"	3/17/21	Adrienne	3/17/21	Danielle
"	-009	"	3/17/21	Adrienne	3/17/21	Danielle

NOTE: All soil, sediment, sludge, and solid samples are reported on a dry-weight basis.

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LAST PAGE OF DOCUMENT