Niagara Development Group

Niagara Engineering

# SUBSURFACE PHASE II ENVIRONMENTAL SITE ASSESSMENT

# 127 CLAYTON STREET
# BUFFALO, ERIE COUNTY, NEW YORK

Prepared for:

**APL Property Group**
**366 Elmwood Avenue**
**Buffalo, New York 14222**

Prepared by:

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# 1.0 INTRODUCTION

A Phase II Environmental Site Assessment (ESA) was completed at 127 Clayton Street, Buffalo, Erie County, New York (refer to **Figure 1**). The Subsurface Assessment/Phase II was completed in accordance with ASTM E1903-19 - Standard Guide for Environmental Site Assessments:- Phase II Environmental Site Assessment Process and in general accordance with the most current updates of New York State Department of Environmental Conservation NYSDEC Division of Environmental Remediation's (DER's) Technical Guidance for Site Investigation and Remediation (DER-10).

This assessment included a subsurface investigation across the property (refer to **Figure 2**). The purpose of the assessment was to obtain information and data for assessing potential environmental impacts at the property and to determine if the property is eligible for the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP).

## 1.1 BACKGROUND

### *1.1.1 General Site Setting*

Located in a mixed commercial/residential neighborhood, the property is currently vacant and is bound by Clayton Street to the west, rail lines to the north, residential property to the south and vacant land and a solar field to the east. The western side along Clayton Street is a long grass and weed covered field. The middle part of the property is tree covered and the eastern portion is soil/fill covered where trees were recently removed. Clayton Street is a small side street bounded in a larger area by Military Road to the west, Hinman Street to the north, Elmwood Avenue to the east, and Hertel Avenue to the south. The area is a typical northeast urban-suburban setting with residential streets, commercial establishments, rail and mall/strip plaza complexes.

### *1.1.2 Physical Setting*

The property is located about 425 yards west of the Tops Elmwood Avenue Plaza and about 1.2 miles east of the Niagara River near Riverside Park. Relatively flat, the property is slightly elevated from Clayton Street and the elevation ranges from 680 to 600 feet above sea level sloping slightly towards the west. The general middle of the parcels is located at latitude 42º 57' 19" N; Longitude 78º 53' 13" W.

Local area topography is generally level sloping slightly to the west and towards the Niagara River. Surface relief in the immediate vicinity of the subject properties is relatively uniform.

### *1.1.3 Historical Use*

The property was previously established as residential lots but remained vacant except for rail lines. The property may have been filled in the past.

*1.1.4 Contaminants of Concern*

The history and use of the subject property suggests there were potential contaminants of concern associated with fill material and past rail use. Potential contaminants include metals and polycyclic aromatic hydrocarbons (PAHs). PAHs are a group of chemicals that are formed during incomplete burning of wood, coal, gas, garbage, or other organic substances and are widely distributed in the environment and particularly in older urban environments where coal, gas, and petroleum were burned for heat and other energy uses. PAH compounds are common constituents of fill material found in urban environments. These are frequently also found in railroad fill base material.

### 1.2 SCOPE

A previous environmental assessment was completed by Benchmark in 2021 during which they completed a series of ten test trenches over a portion of the property. Several elevated levels of metals and PAHs were found above NYSDEC soil cleanup guidance in some of the test trenches. The objective of this environmental assessment was to assess the potential for environmental impacts across a wider property area and determine if the property might be eligible for the BCP. This was completed by performing additional test trenches across the property and specifically in areas not assessed previously

## 2.0 FIELD INVESTIGATIONS

The subsurface assessment field work was completed on July 12, 2024. Prior to conducting the Phase II ESA, the utility locate center was notified to mark underground utilities on the properties. Iron Wolf Contracting provided the equipment (backhoe) and personnel to advance test trenches in the shallow subsurface across the property. A photolog of field activities is included as **Appendix A** and test trench logs are included in **Appendix B**.

### 2.1 SOIL SAMPLING

A total of fourteen (14) test trenches, designated Test Pits TP-1 through TP-14, were advanced at specific locations across the properties (see **Figure 2**). Test trenches were field located to assess the subsurface specific to previous property use and to ensure coverage across the property. Trench depths ranged from 2 to 4 feet below ground surface (bgs) with most being advanced to depths of 3-4 feet bgs. The borings were completed using a track mounted backhoe/excavator unit. Stratification of material observed in each test trench are noted on boring logs, which are included in **Appendix B**.

Soil from each trench was visually described. Soil samples from trenches were collected from mostly the 1-2 foot level in each trench. Observations were noted on the test trench logs. A total of fourteen (14) grab subsurface soil samples were collected at the specific locations and depths from fill material as follows. Note only ten (10) of those samples were submitted to the laboratory for analysis:

- TP-1 at 1-2 feet below ground surface (bgs). Total depth of boring was 3 feet bgs;
- TP-2 at 1-2 feet bgs. Total depth of boring was 3 feet bgs;
- TP-3 at 1-2 feet bgs. Total depth of boring was 3 feet bgs;

- TP-4 at 1-2 feet bgs. Total depth of trench was 3 feet bgs;
- TP-5 at 1-2 feet bgs. Total depth of trench was 3 feet bgs;
- TP-6 at 1-2 feet bgs. Total depth of trench was 3 feet bgs; sample not analyzed at lab
- TP-7 at 1-2 feet bgs. Total depth of trench was 3 feet bgs;
- TP-8 at 1-2 feet bgs. Total depth of trench was 3 feet bgs; sample not analyzed at lab
- TP-9 at 1-2 feet bgs. Total depth of trench was 4 feet bgs;
- TP-10 at 2-3 feet bgs. Total depth of trench was 3 feet bgs; sample not analyzed at lab
- TP-11 at 2-3 feet bgs. Total depth of trench was 4 feet bgs;
- TP-12 at 2-3 feet bgs. Total depth of trench was 3 feet bgs; sample not analyzed at lab
- TP-13 at 1-2 feet bgs. Total depth of trench was 2 feet bgs;
- TP-14 at 1-2 feet bgs. Total depth of trench was 2 feet bgs.

All trenches were backfilled with the soil from the trenches in the order it was removed and compacted. The soil samples were submitted to Eurofins Buffalo Laboratory which is a NYSDEC approved laboratory.

### 2.2 GROUNDWATER SAMPLING

No groundwater samples were collected.

### 2.3 SUBSURFACE CONDITIONS

The borings indicate that shallow subsurface conditions generally consisted of sandy clayey silt with some gravel fill with pieces of brick, cement, glass, clay pipe and cinder to about two (2) feet in most locations. Fill depths were deeper in the eastern portion and less in the existing tree line and in the southwest area. Brown to reddish brown clay was observed below 2-3 feet in most locations. Water was observed in Test Trench 1 (TP-1) at 3-4 feet. All trenches were completed to four (4) feet (refer to trench logs in **Appendix B)**.

## 3.0 RESULTS

The results of the Phase II assessment indicated the following:

- Fill exists at shallow depths across the properties to about 1.5 to 3 feet in most locations.
- The shallow fill contains elevated levels of metals and semi volatile organic compounds, mostly poly aromatic hydrocarbons (PAHs).

Soil samples were analyzed on a standard 10-day turnaround time. The analytical soil results were compared to the NYSDEC Unrestricted, Residential, Restricted Residential, Commercial and Industrial Soil Cleanup Objectives (SCOs) listed in Table 375-6.8(a) and (b) of 6 NYCRR Part 375 (current). These SCOs and standards are listed in **Table 1**. A copy of the laboratory report is provided in **Appendix C**.

### 3.1 SOIL

Ten (10) of the fourteen (14) soil samples were submitted for analysis for NYSDEC Part 375 metals by EPA Method 6010C and NYSDEC Part 375 SVOCs by EPA Method 8270D. The

following summarizes the results.

## Metals

Metal compounds were observed in all soil samples analyzed. A summary of metals above NYSDEC SCOs is provided in **Table 1** and **Figure 2**. The following results were above NYSDEC restricted residential, commercial or industrial SCOs:

- Arsenic exceeded industrial SCOs in TP-3 (53.60ppm)
- Barium exceeded the commercial SCOs in TP-3 (583ppm); TP-4 (490); and TP-7 (1550ppm);
- Cadmium exceeded commercial SCOs in TP-4 (12.20ppm); TP-5 (12.50); and TP-7 (58.90)
- Copper exceeded commercial SCOs in TP-5 (343ppm); and TP-7 (5880ppm)
- Lead exceeded the Restricted Residential SCO in Sample TP-4 (531ppm) and sample TP-5 (635ppm), and above Commercial SCOs in Sample TP-7 (1510ppm)

A number of metals were above Unrestricted and Residential SCOs in various samples across the property – refer to **Table 1**.

### Semi-Volatile Organic Compounds (SVOCs)

Of the ten (10) soil samples submitted for laboratory analysis, eight (8) had elevated SVOCs, mostly PAH compounds, above NYSDEC Restricted Residential SCOs, Commercial or Industrial SCOs – refer to **Table 1 and Figure 2**. These are summarized as follows:

- Benzo(a)anthracene was detected above Industrial SCOs in TP-4 (18ppm) and TP-9 (30ppm), above Commercial SCOs in TP-1 (9.9), and above Restricted Residential in TP-2 (5ppm), TP-5 (2.6ppm), TP-7 (3.10), and TP-11 (1.20.
- Benzo(a)pyrene was detected above Industrial SCOs in TP-1 (6.1ppm), in TP-2 (4.4ppm), TP-4 (18ppm), TP-5 (2.6ppm), TP-7 (2.6), TP-9 (22ppm) and TP-11 (1.3ppm).
- Benzo(b)fluoranthene was detected above Industrial SCOs in TP-1 (13ppm), TP-4 (22ppm), and TP-9 (33ppm); above Commercial SCOs in TP-2 (6.1ppm) and above Restricted Residential SCOs in TP-5 (3.3ppm), TP-7 (3.8ppm), TP-11 (1.8ppm) and in TP-14 (1.20ppm)
- Benzo(k)fluoranthene was detected above Restricted Residential SCOs in TP-1 (4.5ppm), TP-4 (9.7ppm) and TP-9 (13ppm).
- Chrysene was detected above Restricted Residential SCOs in TP-1 (9.7ppm) and TP-2 (5ppm), TP-4 (18ppm) and TP-9 (27ppm).
- Dibenz(a,h)anthracene was detected above industrial SCOs in TP-1 (1.8ppm), TP-4 (2.8ppm) and TP-9 (2.8ppm); above Commercial in TP-2 (0.80ppm) and TP-5 (0.59ppm) and Restricted Residential SCOs in TP-7 (0.48ppm).
- Indeno(1,2,3-cd)pyrene was detected above Industrial SCOs in TP-9 (11ppm); Commercial SCOs in TP-4 (9.4ppm); and in Restricted Residential SCOs in TP-1 (5ppm), TP- 2 (2.2ppm), TP-5 (1.4ppm), TP-7 (1.3) and TP-11 (0.62ppm).

### 3.2 GROUNDWATER

No appreciable groundwater was observed in trenches. As such, no groundwater samples were collected.

## 4.0 CONCLUSIONS

The purpose of this assessment was to identify potential environmental impacts on the subject property and to assess if the results were above brownfield SCOs. The property is vacant land that previously had rail lines and was possibly filled.

The laboratory results indicate that there are urban fill conditions existing at the property to at least two (2) feet bgs resulting in target compounds (metals and SVOCs, primarily PAHs) above NYSDEC Industrial, Commercial and Restricted Residential SCOs.

## 5.0 WARRANTS AND LIMITATIONS

This report is based on information from limited soil sampling and visual observations of the soils as well as a review of historical property information. This report is intended exclusively for the purpose outlined herein at the site location and project indicated.

The scope of services performed in this assessment may not be appropriate to satisfy the needs of other users and any use or reuse of this document or the findings, conclusions, or recommendations presented, is at the sole risk of the user.

The conclusions set forth in this report are based upon, and limited by, the analytical data and other information available. It should be noted that all surface and subsurface environmental assessments are inherently limited in the sense that conclusions are drawn, and recommendations developed from information obtained from limited data and site evaluation at a specific time. The passage of time may result in a change in environmental circumstances at this site and surrounding properties, or petroleum/hazardous materials beneath the surface may be present but undetectable during this limited subsurface assessment.

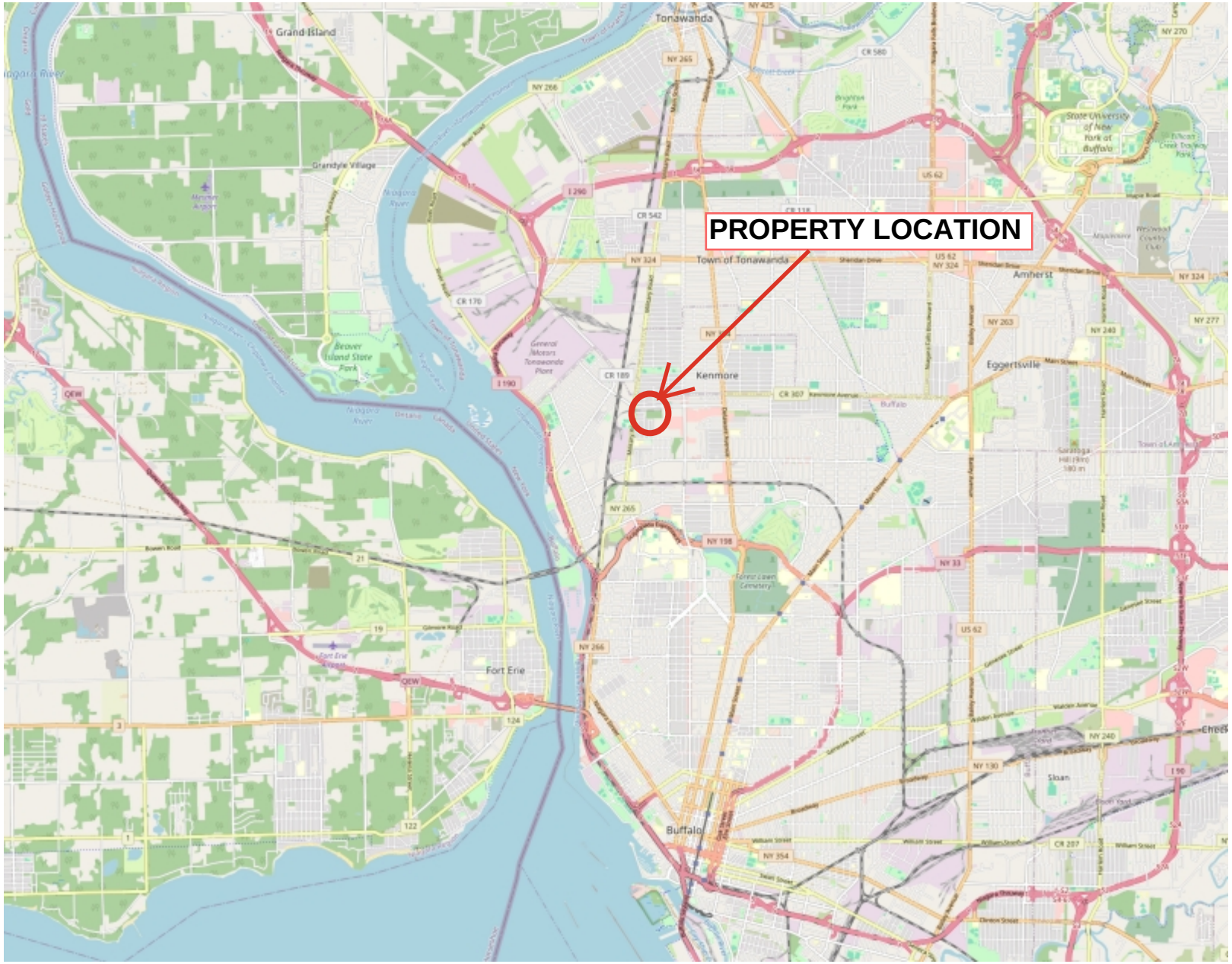
Opinions and recommendations presented herein apply to the site conditions existing at the time of the subsurface assessment and those reasonably foreseeable. They cannot necessarily apply to site changes, which are not made aware and therefore not evaluated.

## 6.0 PROFESSIONAL STATEMENT

This subsurface assessment at 127 Clayton Street, Buffalo, Erie County, New York, was performed in conformance with the scope and limitations of ASTM Practice E 1903-11 for the specific objectives specified in the report. Staff completing the work and report meet the definition of environmental professional as defined in 312.10 of 40CFR312 and have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property.

# FIGURES & TABLES

# Erie County On-Line Mapping Application





**Legend**

**FIGURE:**

**Property Location**

0 2.28 4.6 Miles

WGS_1984_Web_Mercator_Auxiliary_Sphere

THIS MAP IS NOT TO BE USED FOR NAVIGATION

**ERIE COUNTY**
**DEPARTMENT OF ENVIRONMENT & PLANNING**
**OFFICE OF GIS**



1: 144,448

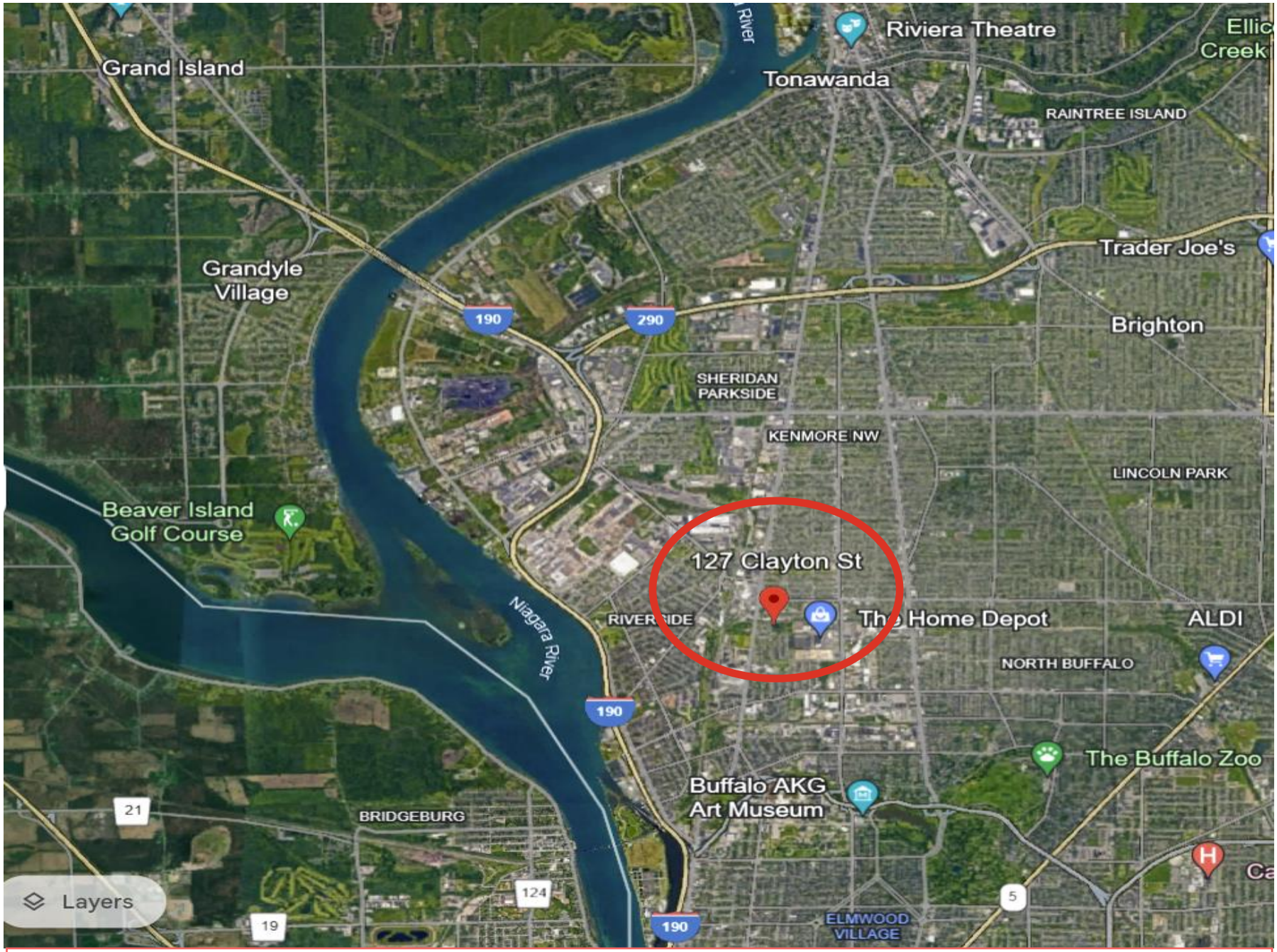



**FIGURE: Project Location**

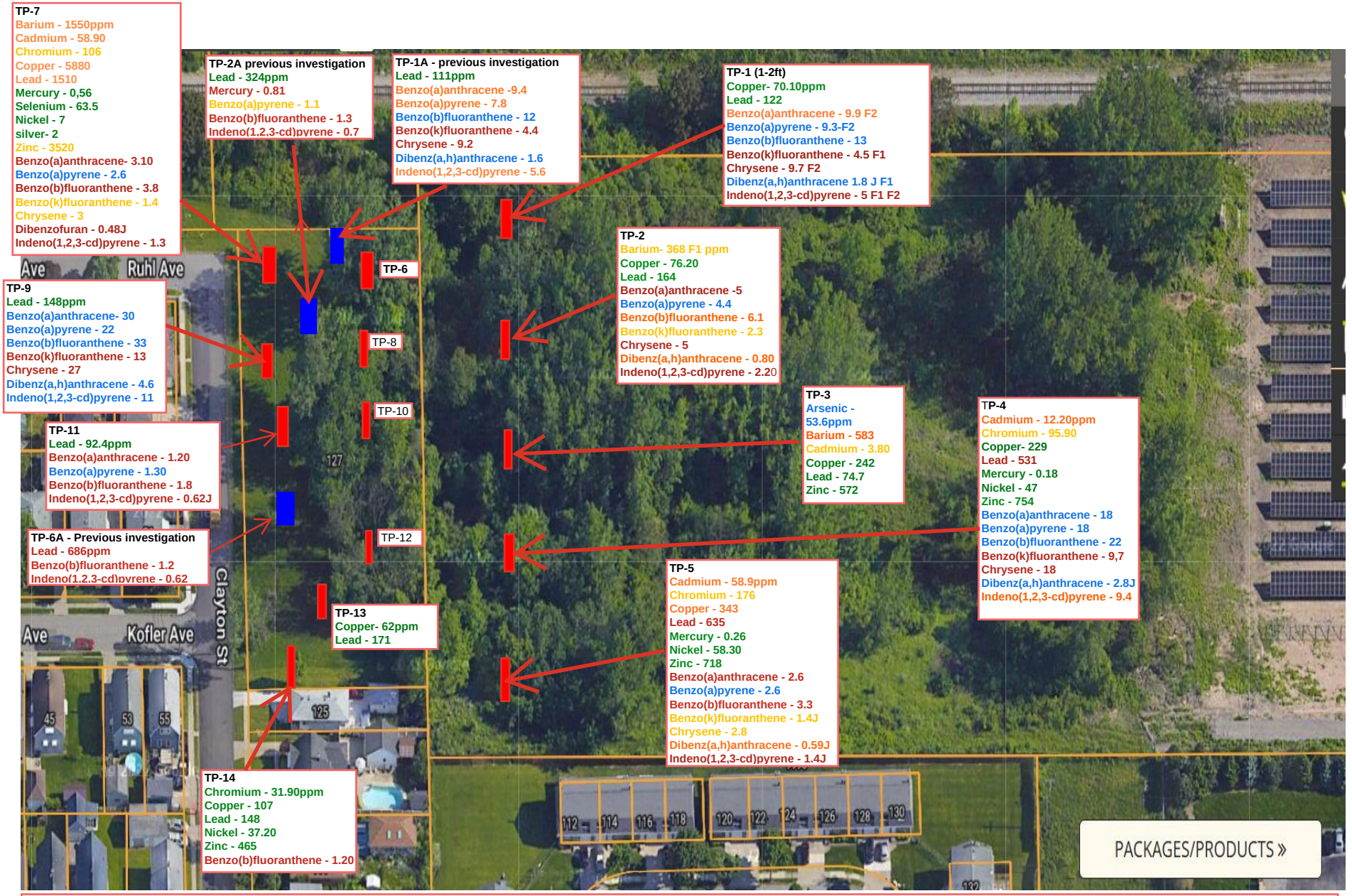



**FIGURE: Property Area with Soil Sample Exceedences**

Niagara Engineering 7-12-24 Test Trenches

Benchmark Previous Test Trenches

**127 Clayton Street**
**Buffalo New York**
**Subsurface Soil Assessment - 7-12-2024**

# TABLE 1
## SUMMARY OF SOIL ANALYTICAL RESULTS

| Parameter Tested | Phase II Report - Sample Identification, Sample Depth in feet below ground surface (bgs), and Sample Date | | | | | | | | | | NYSDEC Soil Cleanup Objectives (SCOs) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TP--1 2-3 | TP-2 1-2ft | TP-3 1-2ft | TP-4 1-2ft | TP-5 1-2ft | TP-7 1-2ft | TP-9 1-2ft | TP-11 1-2ft | TP-13 2-3ft | TP-14 1-2ft | | | | | |
| | 7/12/2024 | | | | | | | | | | Unrestricted | Residential | Restricted Residential | Commerical | Industrial |
| **METALS/INORGANICS** | | | | | | | | | | | | | | | |
| Arsenic | 7.10 | 5.80 | **53.60** | 9.20 | 12.70 | 8.60 | 4.90 | 4.80 | 6.10 | 14.70 | 13 | 16 | 16 | 16 | 16 |
| Barium | **231.00** | **368 F1** | **583.00** | **490.00** | 277.00 | **1550.00** | 128.00 | 128.00 | 174.00 | 141.00 | 350 | 350 | 400 | 400 | 10,000 |
| Beryllium | 1.40 | 3.10 | 1.40 | 2.20 | 1.10 | 0.50 | 0.66 | 0.75 | 0.91 | 1.20 | 7.2 | 14 | 72 | 590 | 2,700 |
| Cadmium | 2.20 | 2.30 | **3.80** | **12.20** | **12.50** | **58.90** | 1.20 | 0.94 | 0.73 | 2.00 | 2.5 | 2.5 | 4.3 | 9.3 | 60 |
| Chromium | 24.40 | 14.60 | 19.60 | **95.90** | **176.00** | **106.00** | 21.80 | 21.50 | 19.10 | **31.90** | 30 | 36 | 180 | 1,500 | 6,800 |
| Copper | **70.10** | **76.20** | **242.00** | **229.00** | 343.00 | **5880.00** | **58.60** | **66.90** | **62.00** | **107.00** | 50 | 270 | 270 | 270 | 10,000 |
| Lead | **122.00** | **164.00** | **74.70** | **531.00** | **635.00** | **1510.00** | **148.00** | **92.40** | **171.00** | **148.00** | 63 | 400 | 400 | 1,000 | 3,900 |
| Manganese | 735.00 | 1390 F1 | 324.00 | 1070.00 | 583.00 | 679.00 | 367.00 | 397.00 | 343.00 | 263.00 | 1,600 | 2,000 | 2,000 | 10,000 | 10,000 |
| Mercury | 0.091 | 0.097 | 0.44 | **0.18** | **0.26** | **0.56** | 0.07 | 0.08 | 0.14 | 0.15 | 0.18 | 0.81 | 0.81 | 2.8 | 5.7 |
| Nickel | 20.40 | 13.00 | **53.20** | **47.00** | **58.30** | **63.50** | **25.60** | 24.40 | 24.20 | **37.20** | 30 | 140 | 310 | 310 | 10,000 |
| Selenium | 1.6 J | 2.2 J F1 | 3.6 J | 2.7 J | 1.3 J | **7.00** | 2.0 J | ND | ND | 2.2 J | 3.9 | 36 | 1,500 | 1,500 | 6,800 |
| Silver | 0.50 J | 0.65 J | 0.54 J | 1.30 | 0.67 J | **2.00** | 0.34 J | ND | ND | 0.33 J | 2 | 36 | 1,500 | 1,500 | 6,800 |
| Zinc | 248.00 | 212 F1 | **572.00** | **754.00** | 718.00 | **3520.00** | **229.00** | 185.00 | 201.00 | 465.00 | 109 | 2,200 | 10,000 | 10,000 | 10,000 |
| **SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCs)** | | | | | | | | | | | | | | | |
| Acenaphthene | 2.2 J F1 | 0.9 J | **0.1** | 3.4 J | 0.36 J | ND | 1.9 J | ND | ND | 0.062 J | 20 | 100 | 100 | 500 | 1,000 |
| Acenaphthylene | 0.39 J | 0.17 J | ND | ND | ND | 0.49 J | 1.7 J | 0.17 J | 0.07 J | 0.14 J | 100 | 100 | 100 | 500 | 1,000 |
| Anthracene | 4.8 F1 F2 | 2.20 | **0.230 J** | 8.00 | 0.88 J | 0.85 J | 10.00 | 0.33 J | 0.073 J | 0.22 J | 100 | 100 | 100 | 500 | 1,000 |
| Benzo(a)anthracene | **9.9 F2** | **5.00** | 0.6 | **18.00** | **2.60** | **3.10** | **30.00** | **1.20** | 0.33 | 0.86 | 1 | 1 | 1 | 5.6 | 11 |
| Benzo(a)pyrene | **9.3 F2** | **4.40** | 0.66 | **18.00** | **2.60** | **2.60** | **22.00** | **1.30** | 0.33 | 0.83 | 1 | 1 | 1 | 1 | 1.1 |
| Benzo(b)fluoranthene | **13.00** | **6.10** | 0.74 | **22.00** | **3.30** | **3.80** | **33.00** | **1.80** | 0.46 | **1.20** | 1 | 1 | 1 | 5.6 | 11 |
| Benzo(g,h,i)perylene | 5.7 F1 F2 | 2.40 | 0.4 | 10.00 | 1.6 J | 1.30 | 10.00 | 0.63 J | 0.17 J | 0.36 | 100 | 100 | 100 | 500 | 1,000 |
| Benzo(k)fluoranthene | **4.5 F1** | **2.30** | 0.44 | **9.70** | **1.4 J** | **1.40** | **13.00** | **0.82 J** | 0.22 | 0.51 | 0.8 | 1 | 3.9 | 56 | 110 |
| Chrysene | **9.7 F2** | **5.00** | 0.66 | **18.00** | **2.80** | **3.00** | **27.00** | **1.40** | 0.39 | 0.94 | 1 | 1 | 3.9 | 56 | 110 |
| Dibenz(a,h)anthracene | 1.8 J F1 | **0.80** | 0.10 J | **2.8 J** | **0.59 J** | **0.48 J** | **4.60** | 0.24 | 0.061 J | 0.15 J | 0.33 | 0.33 | 0.33 | 0.56 | 1.1 |
| Dibenzofuran | 1.2 J F1 F2 | 0.58 | 0.06 J | 1.7 J | 0.3 J | 0.15 J | 2.0 J | ND | ND | 0.046 J | 7 | 14 | 59 | 350 | 1,000 |
| Fluoranthene | 25.0 F2 | 12.00 | 1.5 | 44.00 | 5.70 | 7.90 | 65.00 | 3.60 | 0.89 | 2.20 | 100 | 100 | 100 | 500 | 1,000 |
| Fluorene | 2.1 J F1 F2 | 0.96 | 0.096 J | 3.00 | 0.44 J | 0.39 J | 4.60 | 0.18 J | 0.043 J | 0.12 J | 30 | 100 | 100 | 500 | 1,000 |
| Indeno(1,2,3-cd)pyrene | **5 F1 F2** | **2.20** | 0.35 | **9.40** | **1.4 J** | **1.30** | **11.00** | 0.62 J | 0.17 J | 0.38 | 0.5 | 0.5 | 0.5 | 5.6 | 11 |
| Naphthalene | 0.48 | 0.20 | 0.11 J | ND | 0.33 J | ND | ND | ND | ND | 0.036 J | 12 | 100 | 100 | 500 | 1,000 |
| Phenanthrene | 21 F2 | 10.00 | 1.1 | 33.00 | 4.20 | 4.70 | 39.00 | 2.10 | 0.51 | 1.30 | 100 | 100 | 100 | 500 | 1,000 |
| Pyrene | 19.00 | 8.60 | 1.2 | 35.00 | 4.40 | 5.20 | 42.00 | 2.30 | 0.63 | 1.60 | 100 | 100 | 100 | 500 | 1,000 |

ND Analyte not detected
**13.0** Analyte detected
\- Not Applicable or sample not tested for this analyte
J Estimated Concentration
B Anaalyte detected in method blank
K Result is reported as Benzo(b)fluoranthene
E Results exceeded calibration range
F1 MS and or MSD recovery exceeds control limits
T Result is Tentatively Identifies Compound and an estimated value

Reported concentration greater than or equal to the NYSDEC Unrestricted SCO
Reported concentration greater than or equal to the NYSDEC Residential SCO
Reported concentration greater than or equal to the NYSDEC Restricted Residential SCO
Reported concentration greater than or equal to the NYSDEC Commercial SCO
Reported concentration greater than or equal to the NYSDEC Industrial SCO

# APPENDICES

# APPENDIX A

# Field Activity Photolog

# Photolog

**Date: 7/12/24**

1. View of Test Trench 1 (TP-1) facing north (in northeast corner)

2. Location of TP-1 facing west

Niagara Engineering

3. Location of Test Trench 2 (TP-2) facing west

4. Location of Test Trench TP-2 facing north

# Photolog

**Date: 7/12/24**

5. View of Test Trench 2 (TP-2)

6. Location of Test Trench 3 (TP-3) facing south

Niagara Engineering

7. Location of Test Trench 3 (TP-3) facing west

8. Location of Test Trench TP-3 facing north

# Photolog

**Date: 7/12/24**

9. View of location of Test Trench 4 (TP-4) facing south

10. Location of Test Trench 4 (TP-4) facing southwest

Niagara Engineering

11. Soil from Test Trench 4 (TP-4)

12. Location of Test Trench TP-6 facing east

# Photolog

**Date: 7/12/24**

13. View of location of Test Trench 6 (TP-6) facing southeast

14. Location of Test Trench 7 (TP-7) facing west

Niagara Engineering

15. Location of Test Trench 8 (TP-8) facing southeast

16. Location of Test Trench TP-9 facing south

# Photolog

**Date: 7/12/24**

17. View of location of Test Trench 9 (TP-9) facing west

18. Soil from Test Trench 9 (TP-9)

Niagara Engineering

19. Location of Test Trench 11 (TP-11) facing west

20. Location of Test Trench TP-11 facing south

# Photolog

**Date: 7/12/24**

21. View of location of Test Trench 12 (TP-12) facing east

22. View of Test Trench 13 (TP-13) location facing east

Niagara Engineering

23. Location of Test Trench 13 (TP-13) facing south

24. View of Test Trench 14 (TP-14)

# APPENDIX B

# Trench Logs

# TEST PIT LOG

Niagara Engineering

| | |
|---|---|
| Project: 127 CLAYTON STREET | Sheet: of |
| Client: APL PROPERTY GROUP | Job Number: APL 1 |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY |
| Date Started: 7-12-24 | Ground Elevation: |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC |
| Pit Number: TP-1 | Geologist/Technician: P. Gorton |
| | Ground Water: at 4 feet |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | Sample collected |
| 3 | | | |
| 4 | | | 1-4 feet - clayey silt fill including cinder, clay pipe pieces, glass, and other C&D debris pieces. Water was enountered at 4 feet. Trench ended at water |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample of fill collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | |
|---|---|
| Project: 127 CLAYTON STREET | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY |
| Date Started: 7-12-24 | Ground Elevation: |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC |
| Pit Number: TP-2 | Geologist/Technician: P. Gorton |
| | Ground Water: |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | |
| 3 | | | 0-3 feet - clayey silt fill including cinder, clay pipe pieces, glass, and other C&D debris pieces. |
| 4 | | | 3-4 feet - brown to red-brown silty clay. Trench terminated at 4 feet |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample of fill collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-3 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | |
| 3 | | | 0-3 feet - clayey silt fill including red-black cinder, clay pipe pieces, glass, and other C&D debris pieces. |
| 4 | | | 3-4 feet - brown to red-brown silty clay. Trench terminated at 4 feet |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample of fill collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-4 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | |
| 3 | | | 0-3 feet - clayey silt fill including red-black cinder, clay pipe pieces, glass, slag, and other C&D debris pieces. |
| 4 | | | 3-4 feet - brown to red-brown silty clay. Trench terminated at 4 feet |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample of fill collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-5 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | |
| 3 | | | 0-3 feet - clayey silt fill including red-black cinder, clay pipe pieces, glass, brick, and other C&D debris pieces. |
| 4 | | | 3-4 feet - brown to red-brown silty clay. Trench terminated at 4 feet |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample of fill collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-6 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | |
| 3 | | | 0-3 feet - sandy clayey silt with rock. |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-7 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-1 | | |
| 3 | | | 0-2.5 feet - sandy clayey silt fill with, glass, wood, cement and other pieces of C&D debris. |
| | | | 2.5- 3 feet - brown-red-brown silty clay |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-8 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | TP-1 | | 0-1.5 feet - sandy clayey silt fill with glass and pieces of C& D debris |
| 2 | | | |
| 3 | | | 1.5-2.5 feet - brown - red-brown silty clay. |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-9 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | | | |
| 2 | TP-9 | | |
| 3 | | | 0-2.5 feet - sandy clayey silt fill with, glass, wood, cement and other pieces of C&D debris. |
| | | | 2.5-3 feet - brown to red-brown clay |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 1-2 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-10 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | TP-10 | | 0-1 feet - sandy clayey silt |
| 2 | | | |
| 3 | | | 1-3 feet - brown to red-brown clay |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 0-1 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-11 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | TP-10 | | 0-1 feet - sandy clayey silt |
| 2 | | | |
| 3 | | | 1-3 feet - brown to red-brown silty clay |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 0-1 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-12 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | TP-10 | | 0-1 feet - sandy clayey silt |
| 2 | | | |
| 3 | | | 1-3 feet - brown to red-brown silty clay |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 0-1 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-13 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | TP-10 | | |
| 2 | | | 0-2 feet - sandy clayey silt fill |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 0-1 foot depth. No odors

# TEST PIT LOG

Niagara Engineering

| | | |
|---|---|---|
| Project: 127 CLAYTON STREET | | Sheet: 1 of 1 |
| Client: APL PROPERTY GROUP | Job Number: APL 1 | |
| Contractor: IRON WOLF CONTRACTING LLC | Location: 127 CLAYTON STREET, BUFFALO< NY | |
| Date Started: 7-12-24 | Ground Elevation: | |
| Date Completed: 7-12-24 | Operator: IRON WOLF CONTRACTING LLC | |
| Pit Number: TP-14 | Geologist/Technician: P. Gorton | |
| | Ground Water: | |

| Depth (ft) | Sample # | Sample Type | Description |
|---|---|---|---|
| 1 | TP-10 | | |
| 2 | | | 0-2 feet - sandy clayey silt fill |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Comments: Sample collected from the 0-1 foot depth. No odors

# APPENDIX C

# Laboratory Data

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Akos Seres
Professional Drafting Services/PDS
255 Geat Arrow Avenue
Suite 102
Buffalo, New York 14207

Generated 7/23/2024 8:50:30 AM

## JOB DESCRIPTION

127 Clayton

## JOB NUMBER

480-221604-1

Eurofins Buffalo
10 Hazelwood Drive
Amherst NY 14228-2298

See page two for job notes and contact information.

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northeast, LLC Project Manager.

## Authorization

Generated
7/23/2024 8:50:30 AM

Authorized for release by
John Beninati, Project Manager I
John.Beninati@et.eurofinsus.com
(716)504-9874

# Table of Contents

# Definitions/Glossary

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| E | Result exceeded calibration range. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| S1- | Surrogate recovery exceeds control limits, low biased. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| F2 | MS/MSD RPD exceeds control limits |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

## Job ID: 480-221604-1 Eurofins Buffalo

**Job Narrative**
**480-221604-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**
The samples were received on 7/12/2024 2:02 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 21.5°C.

**GC/MS Semi VOA**
Method 8270D: The following samples were diluted due to color, appearance, and viscosity: TP-1 1-2FT (480-221604-1), TP-2 1-2FT (480-221604-2), TP-4 1-2FT (480-221604-4), TP-5 1-2FT (480-221604-5), TP-7 1-2FT (480-221604-7), TP-9 1-2FT (480-221604-9), TP-11 2-3FT (480-221604-11), (480-221604-A-1-C MS) and (480-221604-A-1-D MSD). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: TP-4 1-2FT (480-221604-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8270D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-718528 and analytical batch 480-718824 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8270D: Due to the high concentration of Fluoranthene and Phenanthrene, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 480-718528 and analytical batch 480-718824 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: TP-9 1-2FT (480-221604-9). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample was diluted due to the abundance of target analytes: TP-9 1-2FT (480-221604-9). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Metals**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**General Chemistry**
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# Detection Summary

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Client Sample ID: TP-1 1-2FT

## Lab Sample ID: 480-221604-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2200 | J F1 | 2300 | 330 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Acenaphthylene | 390 | J | 2300 | 290 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Anthracene | 4800 | F1 F2 | 2300 | 560 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 9900 | F2 | 2300 | 230 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 9300 | F2 | 2300 | 330 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 13000 | F2 | 2300 | 360 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 5700 | F1 F2 | 2300 | 240 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 4500 | F1 | 2300 | 290 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Chrysene | 9700 | F2 | 2300 | 500 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 1800 | J F1 | 2300 | 400 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 1200 | J F1 F2 | 2300 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Fluoranthene | 25000 | F2 | 2300 | 240 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Fluorene | 2100 | J F1 F2 | 2300 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 5000 | F1 F2 | 2300 | 280 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Naphthalene | 480 | J | 2300 | 290 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Phenanthrene | 21000 | F2 | 2300 | 330 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Pyrene | 19000 | | 2300 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Arsenic | 7.1 | | 2.8 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 231 | | 0.70 | 0.20 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 1.4 | | 0.28 | 0.056 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 2.2 | | 0.28 | 0.098 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 24.4 | | 0.70 | 0.51 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 70.1 | | 1.4 | 0.80 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 122 | | 1.4 | 0.65 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 735 | | 1.4 | 0.39 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 20.4 | | 7.0 | 0.35 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 1.6 | J | 5.6 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.50 | J | 0.84 | 0.28 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 248 | | 2.8 | 1.4 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.091 | | 0.026 | 0.0059 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-2 1-2FT

## Lab Sample ID: 480-221604-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 900 | J | 1100 | 160 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Acenaphthylene | 170 | J | 1100 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Anthracene | 2200 | | 1100 | 270 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 5000 | | 1100 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 4400 | | 1100 | 160 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 6100 | | 1100 | 170 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 2400 | | 1100 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 2300 | | 1100 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Chrysene | 5000 | | 1100 | 240 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 800 | J | 1100 | 190 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 580 | J | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluoranthene | 12000 | | 1100 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluorene | 960 | J | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 2200 | | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Naphthalene | 200 | J | 1100 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Phenanthrene | 10000 | | 1100 | 160 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Pyrene | 8600 | | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

## Client Sample ID: TP-2 1-2FT (Continued)

## Lab Sample ID: 480-221604-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 5.8 | | 2.7 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 368 | F1 | 0.67 | 0.19 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 3.1 | | 0.27 | 0.053 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 2.3 | | 0.27 | 0.094 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 14.6 | | 0.67 | 0.48 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 76.2 | | 1.3 | 0.76 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 164 | | 1.3 | 0.61 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 1390 | F2 | 1.3 | 0.37 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 13.0 | | 6.7 | 0.33 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 2.2 | J F1 | 5.3 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.65 | J | 0.80 | 0.27 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 212 | F1 | 2.7 | 1.4 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.097 | | 0.025 | 0.0058 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-3 1-2FT

## Lab Sample ID: 480-221604-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 100 | J | 250 | 36 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 230 | J | 250 | 61 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 680 | | 250 | 25 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 660 | | 250 | 36 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 740 | | 250 | 39 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 400 | | 250 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 440 | | 250 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 660 | | 250 | 55 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 100 | J | 250 | 44 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 61 | J | 250 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 1500 | | 250 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 96 | J | 250 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 350 | | 250 | 30 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Naphthalene | 110 | J | 250 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 1100 | | 250 | 36 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 1200 | | 250 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 53.6 | | 2.8 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 583 | | 0.71 | 0.20 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 1.4 | | 0.28 | 0.056 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 3.8 | | 0.28 | 0.099 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 19.6 | | 0.71 | 0.51 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 242 | | 1.4 | 0.80 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 74.7 | | 1.4 | 0.65 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 324 | | 1.4 | 0.40 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 53.2 | | 7.1 | 0.35 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 3.6 | J | 5.6 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.54 | J | 0.85 | 0.28 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 572 | | 2.8 | 1.4 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.44 | | 0.029 | 0.0067 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-4 1-2FT

## Lab Sample ID: 480-221604-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 3400 | J | 4200 | 620 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Anthracene | 8000 | | 4200 | 1000 | ug/Kg | 20 | ☼ | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: TP-4 1-2FT (Continued)

## Lab Sample ID: 480-221604-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Benzo(a)anthracene | 18000 | | 4200 | 420 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 18000 | | 4200 | 620 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 22000 | | 4200 | 670 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 10000 | | 4200 | 450 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 9700 | | 4200 | 550 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Chrysene | 18000 | | 4200 | 950 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 2800 | J | 4200 | 750 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 1700 | J | 4200 | 500 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Fluoranthene | 44000 | | 4200 | 450 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Fluorene | 3000 | J | 4200 | 500 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 9400 | | 4200 | 520 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Phenanthrene | 33000 | | 4200 | 620 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Pyrene | 35000 | | 4200 | 500 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Arsenic | 9.2 | | 2.4 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 490 | | 0.60 | 0.17 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 2.2 | | 0.24 | 0.048 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 12.2 | | 0.24 | 0.084 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 95.9 | | 0.60 | 0.43 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 229 | | 1.2 | 0.68 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 531 | | 1.2 | 0.55 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 1070 | | 1.2 | 0.33 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 47.0 | | 6.0 | 0.30 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 2.7 | J | 4.8 | 0.96 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 1.3 | | 0.72 | 0.24 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 754 | | 2.4 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.18 | | 0.025 | 0.0057 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-5 1-2FT

## Lab Sample ID: 480-221604-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 360 | J | 2300 | 340 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Anthracene | 880 | J | 2300 | 570 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 2600 | | 2300 | 230 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 2600 | | 2300 | 340 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 3300 | | 2300 | 370 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 1600 | J | 2300 | 240 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 1400 | J | 2300 | 300 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Chrysene | 2800 | | 2300 | 520 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 590 | J | 2300 | 410 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 300 | J | 2300 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Fluoranthene | 5700 | | 2300 | 240 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Fluorene | 440 | J | 2300 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 1400 | J | 2300 | 280 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Naphthalene | 330 | J | 2300 | 300 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Phenanthrene | 4200 | | 2300 | 340 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Pyrene | 4400 | | 2300 | 270 | ug/Kg | 10 | ☼ | 8270D | Total/NA |
| Arsenic | 12.7 | | 2.7 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 277 | | 0.68 | 0.19 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 1.1 | | 0.27 | 0.055 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 12.5 | | 0.27 | 0.095 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 176 | | 0.68 | 0.49 | mg/Kg | 1 | ☼ | 6010C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: TP-5 1-2FT (Continued)

## Lab Sample ID: 480-221604-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Copper | 343 | | 1.4 | 0.78 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 635 | | 1.4 | 0.63 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 586 | | 1.4 | 0.38 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 58.3 | | 6.8 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 1.3 | J | 5.5 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.67 | J | 0.82 | 0.27 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 718 | | 2.7 | 1.4 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.26 | | 0.026 | 0.0061 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-7 1-2FT

## Lab Sample ID: 480-221604-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | 490 | J | 1200 | 150 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Anthracene | 850 | J | 1200 | 290 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 3100 | | 1200 | 120 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 2600 | | 1200 | 170 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 3800 | | 1200 | 190 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 1300 | | 1200 | 120 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 1400 | | 1200 | 150 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Chrysene | 3000 | | 1200 | 260 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 480 | J | 1200 | 210 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 150 | J | 1200 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluoranthene | 7900 | | 1200 | 120 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluorene | 390 | J | 1200 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 1300 | | 1200 | 150 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Phenanthrene | 4700 | | 1200 | 170 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Pyrene | 5200 | | 1200 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Arsenic | 8.6 | | 2.7 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 1550 | | 0.68 | 0.19 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 0.50 | | 0.27 | 0.054 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 58.9 | | 0.27 | 0.095 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 106 | | 0.68 | 0.49 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 5880 | | 27.2 | 15.5 | mg/Kg | 20 | ☼ | 6010C | Total/NA |
| Lead | 1510 | | 1.4 | 0.63 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 679 | | 1.4 | 0.38 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 63.5 | | 6.8 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 7.0 | | 5.4 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 2.0 | | 0.82 | 0.27 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 3520 | | 54.5 | 27.8 | mg/Kg | 20 | ☼ | 6010C | Total/NA |
| Mercury | 0.56 | | 0.028 | 0.0064 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-9 1-2FT

## Lab Sample ID: 480-221604-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 1900 | J | 4000 | 590 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Acenaphthylene | 1700 | J | 4000 | 520 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Anthracene | 10000 | | 4000 | 990 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 30000 | | 4000 | 400 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 22000 | | 4000 | 590 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 33000 | | 4000 | 640 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 10000 | | 4000 | 430 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 13000 | | 4000 | 520 | ug/Kg | 20 | ☼ | 8270D | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: TP-9 1-2FT (Continued)

## Lab Sample ID: 480-221604-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Chrysene | 27000 | | 4000 | 900 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 4600 | | 4000 | 710 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 2000 | J | 4000 | 470 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Fluorene | 4600 | | 4000 | 470 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 11000 | | 4000 | 500 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Phenanthrene | 39000 | | 4000 | 590 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Pyrene | 42000 | | 4000 | 470 | ug/Kg | 20 | ☼ | 8270D | Total/NA |
| Fluoranthene - DL | 65000 | | 10000 | 1100 | ug/Kg | 50 | ☼ | 8270D | Total/NA |
| Arsenic | 4.9 | | 2.4 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 128 | | 0.60 | 0.17 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 0.66 | | 0.24 | 0.048 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 1.2 | | 0.24 | 0.085 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 21.8 | | 0.60 | 0.43 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 58.6 | | 1.2 | 0.69 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 148 | | 1.2 | 0.56 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 367 | | 1.2 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 25.6 | | 6.0 | 0.30 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 2.0 | J | 4.8 | 0.97 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.34 | J | 0.72 | 0.24 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 229 | | 2.4 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.074 | | 0.024 | 0.0056 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-11 2-3FT

## Lab Sample ID: 480-221604-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | 170 | J | 1100 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Anthracene | 330 | J | 1100 | 270 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 1200 | | 1100 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 1300 | | 1100 | 160 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 1800 | | 1100 | 170 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 630 | J | 1100 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 820 | J | 1100 | 140 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Chrysene | 1400 | | 1100 | 240 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 240 | J | 1100 | 190 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluoranthene | 3600 | | 1100 | 110 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Fluorene | 180 | J | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 620 | J | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Phenanthrene | 2100 | | 1100 | 160 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Pyrene | 2300 | | 1100 | 130 | ug/Kg | 5 | ☼ | 8270D | Total/NA |
| Arsenic | 4.8 | | 2.4 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 128 | | 0.61 | 0.17 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 0.75 | | 0.24 | 0.049 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.94 | | 0.24 | 0.085 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 21.5 | | 0.61 | 0.44 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 66.9 | | 1.2 | 0.69 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 92.4 | | 1.2 | 0.56 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 397 | | 1.2 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 24.4 | | 6.1 | 0.30 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 185 | | 2.4 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.076 | | 0.026 | 0.0060 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: TP-13 1-2FT — Lab Sample ID: 480-221604-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthylene | 70 | J | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 73 | J | 220 | 55 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 330 | | 220 | 22 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 330 | | 220 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 460 | | 220 | 35 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 170 | J | 220 | 23 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 220 | | 220 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 390 | | 220 | 49 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 61 | J | 220 | 39 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 890 | | 220 | 23 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 43 | J | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 170 | J | 220 | 27 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 510 | | 220 | 32 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 630 | | 220 | 26 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 6.1 | | 2.5 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 174 | | 0.63 | 0.18 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 0.91 | | 0.25 | 0.050 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 0.73 | | 0.25 | 0.088 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 19.1 | | 0.63 | 0.45 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Copper | 62.0 | | 1.3 | 0.71 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 171 | | 1.3 | 0.58 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 343 | | 1.3 | 0.35 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 24.2 | | 6.3 | 0.31 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 201 | | 2.5 | 1.3 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.14 | | 0.026 | 0.0059 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

## Client Sample ID: TP-14 1-2FT — Lab Sample ID: 480-221604-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 62 | J | 240 | 35 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Acenaphthylene | 140 | J | 240 | 31 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Anthracene | 220 | J | 240 | 58 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(a)anthracene | 860 | | 240 | 24 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(a)pyrene | 830 | | 240 | 35 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(b)fluoranthene | 1200 | | 240 | 37 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(g,h,i)perylene | 360 | | 240 | 25 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Benzo(k)fluoranthene | 510 | | 240 | 31 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Chrysene | 940 | | 240 | 53 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenz(a,h)anthracene | 150 | J | 240 | 42 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Dibenzofuran | 46 | J | 240 | 28 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluoranthene | 2200 | | 240 | 25 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Fluorene | 120 | J | 240 | 28 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Indeno(1,2,3-cd)pyrene | 380 | | 240 | 29 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Naphthalene | 36 | J | 240 | 31 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Phenanthrene | 1300 | | 240 | 35 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Pyrene | 1600 | | 240 | 28 | ug/Kg | 1 | ☼ | 8270D | Total/NA |
| Arsenic | 14.7 | | 2.8 | 1.2 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Barium | 141 | | 0.69 | 0.19 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Beryllium | 1.2 | | 0.28 | 0.055 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Cadmium | 2.0 | | 0.28 | 0.096 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Chromium | 31.9 | | 0.69 | 0.50 | mg/Kg | 1 | ☼ | 6010C | Total/NA |

This Detection Summary does not include radiochemical test results.

## Client Sample ID: TP-14 1-2FT (Continued)

## Lab Sample ID: 480-221604-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Copper | 107 | | 1.4 | 0.79 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Lead | 148 | | 1.4 | 0.63 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Manganese | 263 | | 1.4 | 0.39 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Nickel | 37.2 | | 6.9 | 0.34 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Selenium | 2.2 | J | 5.5 | 1.1 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Silver | 0.33 | J | 0.83 | 0.28 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Zinc | 465 | | 2.8 | 1.4 | mg/Kg | 1 | ☼ | 6010C | Total/NA |
| Mercury | 0.15 | | 0.027 | 0.0062 | mg/Kg | 1 | ☼ | 7471B | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Client Sample ID: TP-1 1-2FT

**Date Collected: 07/12/24 08:05**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-1

**Matrix: Solid**
**Percent Solids: 74.0**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2200 | J F1 | 2300 | 330 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Acenaphthylene | 390 | J | 2300 | 290 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Anthracene | 4800 | F1 F2 | 2300 | 560 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Benzo(a)anthracene | 9900 | F2 | 2300 | 230 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Benzo(a)pyrene | 9300 | F2 | 2300 | 330 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Benzo(b)fluoranthene | 13000 | F2 | 2300 | 360 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Benzo(g,h,i)perylene | 5700 | F1 F2 | 2300 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Benzo(k)fluoranthene | 4500 | F1 | 2300 | 290 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Chrysene | 9700 | F2 | 2300 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Dibenz(a,h)anthracene | 1800 | J F1 | 2300 | 400 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Dibenzofuran | 1200 | J F1 F2 | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Fluoranthene | 25000 | F2 | 2300 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Fluorene | 2100 | J F1 F2 | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Hexachlorobenzene | ND | | 2300 | 310 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Indeno(1,2,3-cd)pyrene | 5000 | F1 F2 | 2300 | 280 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| m-Cresol | ND | | 4400 | 350 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Naphthalene | 480 | J | 2300 | 290 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| 1,4-Dioxane | ND | | 1300 | 730 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| o-Cresol | ND | | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| p-Cresol | ND | | 4400 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Pentachlorophenol | ND | | 4400 | 2300 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Phenanthrene | 21000 | F2 | 2300 | 330 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Phenol | ND | | 2300 | 350 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |
| Pyrene | 19000 | | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:19 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *95* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 16:19* | *10* |
| *2-Fluorobiphenyl* | *90* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 16:19* | *10* |
| *2-Fluorophenol* | *86* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 16:19* | *10* |
| *Nitrobenzene-d5* | *79* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 16:19* | *10* |
| *Phenol-d5* | *88* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 16:19* | *10* |
| *p-Terphenyl-d14* | *89* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 16:19* | *10* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 7.1 | | 2.8 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Barium | 231 | | 0.70 | 0.20 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Beryllium | 1.4 | | 0.28 | 0.056 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Cadmium | 2.2 | | 0.28 | 0.098 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Chromium | 24.4 | | 0.70 | 0.51 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Copper | 70.1 | | 1.4 | 0.80 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Lead | 122 | | 1.4 | 0.65 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Manganese | 735 | | 1.4 | 0.39 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Nickel | 20.4 | | 7.0 | 0.35 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Selenium | 1.6 | J | 5.6 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Silver | 0.50 | J | 0.84 | 0.28 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |
| Zinc | 248 | | 2.8 | 1.4 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:07 | 1 |

## Client Sample ID: TP-1 1-2FT
**Lab Sample ID: 480-221604-1**
**Date Collected: 07/12/24 08:05**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 74.0**

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.091** | | 0.026 | 0.0059 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:21 | 1 |

## Client Sample ID: TP-2 1-2FT
**Lab Sample ID: 480-221604-2**
**Date Collected: 07/12/24 08:20**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 78.4**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **900** | **J** | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Acenaphthylene** | **170** | **J** | 1100 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Anthracene** | **2200** | | 1100 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Benzo(a)anthracene** | **5000** | | 1100 | 110 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Benzo(a)pyrene** | **4400** | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Benzo(b)fluoranthene** | **6100** | | 1100 | 170 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Benzo(g,h,i)perylene** | **2400** | | 1100 | 110 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Benzo(k)fluoranthene** | **2300** | | 1100 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Chrysene** | **5000** | | 1100 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Dibenz(a,h)anthracene** | **800** | **J** | 1100 | 190 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Dibenzofuran** | **580** | **J** | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Fluoranthene** | **12000** | | 1100 | 110 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Fluorene** | **960** | **J** | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| Hexachlorobenzene | ND | | 1100 | 150 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Indeno(1,2,3-cd)pyrene** | **2200** | | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| m-Cresol | ND | | 2100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Naphthalene** | **200** | **J** | 1100 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| 1,4-Dioxane | ND | | 630 | 350 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| o-Cresol | ND | | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| p-Cresol | ND | | 2100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| Pentachlorophenol | ND | | 2100 | 1100 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Phenanthrene** | **10000** | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| Phenol | ND | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |
| **Pyrene** | **8600** | | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 16:46 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *101* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 16:46* | *5* |
| *2-Fluorobiphenyl* | *98* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 16:46* | *5* |
| *2-Fluorophenol* | *85* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 16:46* | *5* |
| *Nitrobenzene-d5* | *82* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 16:46* | *5* |
| *Phenol-d5* | *97* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 16:46* | *5* |
| *p-Terphenyl-d14* | *92* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 16:46* | *5* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **5.8** | | 2.7 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| **Barium** | **368** | **F1** | 0.67 | 0.19 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| **Beryllium** | **3.1** | | 0.27 | 0.053 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| **Cadmium** | **2.3** | | 0.27 | 0.094 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| **Chromium** | **14.6** | | 0.67 | 0.48 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| **Copper** | **76.2** | | 1.3 | 0.76 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| **Lead** | **164** | | 1.3 | 0.61 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |

## Client Sample ID: TP-2 1-2FT

**Lab Sample ID: 480-221604-2**
**Date Collected: 07/12/24 08:20**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 78.4**

### Method: SW846 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Manganese | 1390 | F2 | 1.3 | 0.37 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| Nickel | 13.0 | | 6.7 | 0.33 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| Selenium | 2.2 | J F1 | 5.3 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| Silver | 0.65 | J | 0.80 | 0.27 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |
| Zinc | 212 | F1 | 2.7 | 1.4 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:15 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.097 | | 0.025 | 0.0058 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:22 | 1 |

## Client Sample ID: TP-3 1-2FT

**Lab Sample ID: 480-221604-3**
**Date Collected: 07/12/24 08:30**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 68.0**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 100 | J | 250 | 36 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Acenaphthylene | ND | | 250 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Anthracene | 230 | J | 250 | 61 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Benzo(a)anthracene | 680 | | 250 | 25 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Benzo(a)pyrene | 660 | | 250 | 36 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Benzo(b)fluoranthene | 740 | | 250 | 39 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Benzo(g,h,i)perylene | 400 | | 250 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Benzo(k)fluoranthene | 440 | | 250 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Chrysene | 660 | | 250 | 55 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Dibenz(a,h)anthracene | 100 | J | 250 | 44 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Dibenzofuran | 61 | J | 250 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Fluoranthene | 1500 | | 250 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Fluorene | 96 | J | 250 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Hexachlorobenzene | ND | | 250 | 33 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Indeno(1,2,3-cd)pyrene | 350 | | 250 | 30 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| m-Cresol | ND | | 480 | 38 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Naphthalene | 110 | J | 250 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| 1,4-Dioxane | ND | | 150 | 80 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| o-Cresol | ND | | 250 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| p-Cresol | ND | | 480 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Pentachlorophenol | ND | | 480 | 250 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Phenanthrene | 1100 | | 250 | 36 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Phenol | ND | | 250 | 38 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |
| Pyrene | 1200 | | 250 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:13 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *100* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 17:13* | *1* |
| *2-Fluorobiphenyl* | *85* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 17:13* | *1* |
| *2-Fluorophenol* | *76* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 17:13* | *1* |
| *Nitrobenzene-d5* | *68* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 17:13* | *1* |
| *Phenol-d5* | *83* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 17:13* | *1* |
| *p-Terphenyl-d14* | *91* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 17:13* | *1* |

## Client Sample ID: TP-3 1-2FT

**Lab Sample ID: 480-221604-3**

**Date Collected: 07/12/24 08:30**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 68.0**

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 53.6 | | 2.8 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Barium | 583 | | 0.71 | 0.20 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Beryllium | 1.4 | | 0.28 | 0.056 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Cadmium | 3.8 | | 0.28 | 0.099 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Chromium | 19.6 | | 0.71 | 0.51 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Copper | 242 | | 1.4 | 0.80 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Lead | 74.7 | | 1.4 | 0.65 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Manganese | 324 | | 1.4 | 0.40 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Nickel | 53.2 | | 7.1 | 0.35 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Selenium | 3.6 | J | 5.6 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Silver | 0.54 | J | 0.85 | 0.28 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |
| Zinc | 572 | | 2.8 | 1.4 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:24 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.44 | | 0.029 | 0.0067 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:24 | 1 |

## Client Sample ID: TP-4 1-2FT

**Lab Sample ID: 480-221604-4**

**Date Collected: 07/12/24 08:40**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 79.3**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 3400 | J | 4200 | 620 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Acenaphthylene | ND | | 4200 | 550 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Anthracene | 8000 | | 4200 | 1000 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Benzo(a)anthracene | 18000 | | 4200 | 420 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Benzo(a)pyrene | 18000 | | 4200 | 620 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Benzo(b)fluoranthene | 22000 | | 4200 | 670 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Benzo(g,h,i)perylene | 10000 | | 4200 | 450 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Benzo(k)fluoranthene | 9700 | | 4200 | 550 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Chrysene | 18000 | | 4200 | 950 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Dibenz(a,h)anthracene | 2800 | J | 4200 | 750 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Dibenzofuran | 1700 | J | 4200 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Fluoranthene | 44000 | | 4200 | 450 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Fluorene | 3000 | J | 4200 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Hexachlorobenzene | ND | | 4200 | 570 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Indeno(1,2,3-cd)pyrene | 9400 | | 4200 | 520 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| m-Cresol | ND | | 8200 | 650 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Naphthalene | ND | | 4200 | 550 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| 1,4-Dioxane | ND | | 2500 | 1400 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| o-Cresol | ND | | 4200 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| p-Cresol | ND | | 8200 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Pentachlorophenol | ND | | 8200 | 4200 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Phenanthrene | 33000 | | 4200 | 620 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Phenol | ND | | 4200 | 650 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |
| Pyrene | 35000 | | 4200 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 17:41 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *103* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 17:41* | *20* |

## Client Sample ID: TP-4 1-2FT

**Lab Sample ID: 480-221604-4**

**Date Collected: 07/12/24 08:40**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 79.3**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2-Fluorobiphenyl* | *86* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 17:41* | *20* |
| *2-Fluorophenol* | *80* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 17:41* | *20* |
| *Nitrobenzene-d5* | *71* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 17:41* | *20* |
| *Phenol-d5* | *77* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 17:41* | *20* |
| *p-Terphenyl-d14* | *88* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 17:41* | *20* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **9.2** | | 2.4 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Barium** | **490** | | 0.60 | 0.17 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Beryllium** | **2.2** | | 0.24 | 0.048 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Cadmium** | **12.2** | | 0.24 | 0.084 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Chromium** | **95.9** | | 0.60 | 0.43 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Copper** | **229** | | 1.2 | 0.68 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Lead** | **531** | | 1.2 | 0.55 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Manganese** | **1070** | | 1.2 | 0.33 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Nickel** | **47.0** | | 6.0 | 0.30 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Selenium** | **2.7** | **J** | 4.8 | 0.96 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Silver** | **1.3** | | 0.72 | 0.24 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |
| **Zinc** | **754** | | 2.4 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:26 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.18** | | 0.025 | 0.0057 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:25 | 1 |

## Client Sample ID: TP-5 1-2FT

**Lab Sample ID: 480-221604-5**

**Date Collected: 07/12/24 08:50**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 73.0**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **360** | **J** | 2300 | 340 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| Acenaphthylene | ND | | 2300 | 300 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Anthracene** | **880** | **J** | 2300 | 570 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Benzo(a)anthracene** | **2600** | | 2300 | 230 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Benzo(a)pyrene** | **2600** | | 2300 | 340 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Benzo(b)fluoranthene** | **3300** | | 2300 | 370 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Benzo(g,h,i)perylene** | **1600** | **J** | 2300 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Benzo(k)fluoranthene** | **1400** | **J** | 2300 | 300 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Chrysene** | **2800** | | 2300 | 520 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Dibenz(a,h)anthracene** | **590** | **J** | 2300 | 410 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Dibenzofuran** | **300** | **J** | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Fluoranthene** | **5700** | | 2300 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Fluorene** | **440** | **J** | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| Hexachlorobenzene | ND | | 2300 | 310 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Indeno(1,2,3-cd)pyrene** | **1400** | **J** | 2300 | 280 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| m-Cresol | ND | | 4500 | 350 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Naphthalene** | **330** | **J** | 2300 | 300 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| 1,4-Dioxane | ND | | 1400 | 750 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| o-Cresol | ND | | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |

## Client Sample ID: TP-5 1-2FT

**Date Collected: 07/12/24 08:50**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-5

**Matrix: Solid**
**Percent Solids: 73.0**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| p-Cresol | ND | | 4500 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| Pentachlorophenol | ND | | 4500 | 2300 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Phenanthrene** | **4200** | | 2300 | 340 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| Phenol | ND | | 2300 | 350 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |
| **Pyrene** | **4400** | | 2300 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:09 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *106* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 18:09* | *10* |
| *2-Fluorobiphenyl* | *82* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 18:09* | *10* |
| *2-Fluorophenol* | *72* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 18:09* | *10* |
| *Nitrobenzene-d5* | *69* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 18:09* | *10* |
| *Phenol-d5* | *72* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 18:09* | *10* |
| *p-Terphenyl-d14* | *89* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 18:09* | *10* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **12.7** | | 2.7 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Barium** | **277** | | 0.68 | 0.19 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Beryllium** | **1.1** | | 0.27 | 0.055 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Cadmium** | **12.5** | | 0.27 | 0.095 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Chromium** | **176** | | 0.68 | 0.49 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Copper** | **343** | | 1.4 | 0.78 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Lead** | **635** | | 1.4 | 0.63 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Manganese** | **586** | | 1.4 | 0.38 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Nickel** | **58.3** | | 6.8 | 0.34 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Selenium** | **1.3** | **J** | 5.5 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Silver** | **0.67** | **J** | 0.82 | 0.27 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |
| **Zinc** | **718** | | 2.7 | 1.4 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:28 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.26** | | 0.026 | 0.0061 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:26 | 1 |

## Client Sample ID: TP-7 1-2FT

**Date Collected: 07/12/24 09:20**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-7

**Matrix: Solid**
**Percent Solids: 71.9**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1200 | 170 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Acenaphthylene** | **490** | **J** | 1200 | 150 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Anthracene** | **850** | **J** | 1200 | 290 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Benzo(a)anthracene** | **3100** | | 1200 | 120 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Benzo(a)pyrene** | **2600** | | 1200 | 170 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Benzo(b)fluoranthene** | **3800** | | 1200 | 190 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Benzo(g,h,i)perylene** | **1300** | | 1200 | 120 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Benzo(k)fluoranthene** | **1400** | | 1200 | 150 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Chrysene** | **3000** | | 1200 | 260 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Dibenz(a,h)anthracene** | **480** | **J** | 1200 | 210 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Dibenzofuran** | **150** | **J** | 1200 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Fluoranthene** | **7900** | | 1200 | 120 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |

## Client Sample ID: TP-7 1-2FT

**Date Collected: 07/12/24 09:20**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-7

**Matrix: Solid**
**Percent Solids: 71.9**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Fluorene** | **390** | **J** | 1200 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| Hexachlorobenzene | ND | | 1200 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Indeno(1,2,3-cd)pyrene** | **1300** | | 1200 | 150 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| m-Cresol | ND | | 2300 | 180 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| Naphthalene | ND | | 1200 | 150 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| 1,4-Dioxane | ND | | 690 | 380 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| o-Cresol | ND | | 1200 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| p-Cresol | ND | | 2300 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| Pentachlorophenol | ND | | 2300 | 1200 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Phenanthrene** | **4700** | | 1200 | 170 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| Phenol | ND | | 1200 | 180 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |
| **Pyrene** | **5200** | | 1200 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 18:36 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *89* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 18:36* | *5* |
| *2-Fluorobiphenyl* | *86* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 18:36* | *5* |
| *2-Fluorophenol* | *82* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 18:36* | *5* |
| *Nitrobenzene-d5* | *69* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 18:36* | *5* |
| *Phenol-d5* | *83* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 18:36* | *5* |
| *p-Terphenyl-d14* | *88* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 18:36* | *5* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **8.6** | | 2.7 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Barium** | **1550** | | 0.68 | 0.19 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Beryllium** | **0.50** | | 0.27 | 0.054 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Cadmium** | **58.9** | | 0.27 | 0.095 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Chromium** | **106** | | 0.68 | 0.49 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Copper** | **5880** | | 27.2 | 15.5 | mg/Kg | ☼ | 07/15/24 13:07 | 07/17/24 11:22 | 20 |
| **Lead** | **1510** | | 1.4 | 0.63 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Manganese** | **679** | | 1.4 | 0.38 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Nickel** | **63.5** | | 6.8 | 0.34 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Selenium** | **7.0** | | 5.4 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Silver** | **2.0** | | 0.82 | 0.27 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:30 | 1 |
| **Zinc** | **3520** | | 54.5 | 27.8 | mg/Kg | ☼ | 07/15/24 13:07 | 07/17/24 11:22 | 20 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.56** | | 0.028 | 0.0064 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:28 | 1 |

## Client Sample ID: TP-9 1-2FT

**Date Collected: 07/12/24 09:40**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-9

**Matrix: Solid**
**Percent Solids: 83.4**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **1900** | **J** | 4000 | 590 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Acenaphthylene** | **1700** | **J** | 4000 | 520 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Anthracene** | **10000** | | 4000 | 990 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Benzo(a)anthracene** | **30000** | | 4000 | 400 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Benzo(a)pyrene** | **22000** | | 4000 | 590 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |

## Client Sample ID: TP-9 1-2FT

**Date Collected: 07/12/24 09:40**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-9

**Matrix: Solid**
**Percent Solids: 83.4**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Benzo(b)fluoranthene** | **33000** | | 4000 | 640 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Benzo(g,h,i)perylene** | **10000** | | 4000 | 430 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Benzo(k)fluoranthene** | **13000** | | 4000 | 520 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Chrysene** | **27000** | | 4000 | 900 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Dibenz(a,h)anthracene** | **4600** | | 4000 | 710 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Dibenzofuran** | **2000** | **J** | 4000 | 470 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Fluorene** | **4600** | | 4000 | 470 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| Hexachlorobenzene | ND | | 4000 | 540 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Indeno(1,2,3-cd)pyrene** | **11000** | | 4000 | 500 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| m-Cresol | ND | | 7800 | 620 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| Naphthalene | ND | | 4000 | 520 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| 1,4-Dioxane | ND | | 2400 | 1300 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| o-Cresol | ND | | 4000 | 470 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| p-Cresol | ND | | 7800 | 470 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| Pentachlorophenol | ND | | 7800 | 4000 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Phenanthrene** | **39000** | | 4000 | 590 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| Phenol | ND | | 4000 | 620 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |
| **Pyrene** | **42000** | | 4000 | 470 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:04 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *107* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 19:04* | *20* |
| *2-Fluorobiphenyl* | *94* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 19:04* | *20* |
| *2-Fluorophenol* | *81* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 19:04* | *20* |
| *Nitrobenzene-d5* | *77* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 19:04* | *20* |
| *Phenol-d5* | *75* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 19:04* | *20* |
| *p-Terphenyl-d14* | *90* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 19:04* | *20* |

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Fluoranthene** | **65000** | | 10000 | 1100 | ug/Kg | ☼ | 07/16/24 07:37 | 07/19/24 16:31 | 50 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *0* | *S1-* | *26 - 143* | *07/16/24 07:37* | *07/19/24 16:31* | *50* |
| *2-Fluorobiphenyl* | *88* | | *50 - 121* | *07/16/24 07:37* | *07/19/24 16:31* | *50* |
| *2-Fluorophenol* | *102* | | *36 - 120* | *07/16/24 07:37* | *07/19/24 16:31* | *50* |
| *Nitrobenzene-d5* | *74* | | *40 - 121* | *07/16/24 07:37* | *07/19/24 16:31* | *50* |
| *Phenol-d5* | *77* | | *41 - 120* | *07/16/24 07:37* | *07/19/24 16:31* | *50* |
| *p-Terphenyl-d14* | *90* | | *46 - 143* | *07/16/24 07:37* | *07/19/24 16:31* | *50* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **4.9** | | 2.4 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Barium** | **128** | | 0.60 | 0.17 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Beryllium** | **0.66** | | 0.24 | 0.048 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Cadmium** | **1.2** | | 0.24 | 0.085 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Chromium** | **21.8** | | 0.60 | 0.43 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Copper** | **58.6** | | 1.2 | 0.69 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Lead** | **148** | | 1.2 | 0.56 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Manganese** | **367** | | 1.2 | 0.34 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| **Nickel** | **25.6** | | 6.0 | 0.30 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |

## Client Sample ID: TP-9 1-2FT

**Lab Sample ID: 480-221604-9**
**Date Collected: 07/12/24 09:40**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 83.4**

### Method: SW846 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Selenium | 2.0 | J | 4.8 | 0.97 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| Silver | 0.34 | J | 0.72 | 0.24 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |
| Zinc | 229 | | 2.4 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:38 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.074 | | 0.024 | 0.0056 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:34 | 1 |

## Client Sample ID: TP-11 2-3FT

**Lab Sample ID: 480-221604-11**
**Date Collected: 07/12/24 10:05**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 78.9**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Acenaphthylene | 170 | J | 1100 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Anthracene | 330 | J | 1100 | 270 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Benzo(a)anthracene | 1200 | | 1100 | 110 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Benzo(a)pyrene | 1300 | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Benzo(b)fluoranthene | 1800 | | 1100 | 170 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Benzo(g,h,i)perylene | 630 | J | 1100 | 110 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Benzo(k)fluoranthene | 820 | J | 1100 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Chrysene | 1400 | | 1100 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Dibenz(a,h)anthracene | 240 | J | 1100 | 190 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Dibenzofuran | ND | | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Fluoranthene | 3600 | | 1100 | 110 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Fluorene | 180 | J | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Hexachlorobenzene | ND | | 1100 | 150 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Indeno(1,2,3-cd)pyrene | 620 | J | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| m-Cresol | ND | | 2100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Naphthalene | ND | | 1100 | 140 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| 1,4-Dioxane | ND | | 630 | 350 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| o-Cresol | ND | | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| p-Cresol | ND | | 2100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Pentachlorophenol | ND | | 2100 | 1100 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Phenanthrene | 2100 | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Phenol | ND | | 1100 | 160 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |
| Pyrene | 2300 | | 1100 | 130 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:32 | 5 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *85* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 19:32* | *5* |
| *2-Fluorobiphenyl* | *82* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 19:32* | *5* |
| *2-Fluorophenol* | *81* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 19:32* | *5* |
| *Nitrobenzene-d5* | *67* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 19:32* | *5* |
| *Phenol-d5* | *81* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 19:32* | *5* |
| *p-Terphenyl-d14* | *83* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 19:32* | *5* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 4.8 | | 2.4 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| Barium | 128 | | 0.61 | 0.17 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |

## Client Sample ID: TP-11 2-3FT

**Lab Sample ID: 480-221604-11**
**Date Collected: 07/12/24 10:05**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 78.9**

### Method: SW846 6010C - Metals (ICP) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Beryllium** | **0.75** | | 0.24 | 0.049 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Cadmium** | **0.94** | | 0.24 | 0.085 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Chromium** | **21.5** | | 0.61 | 0.44 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Copper** | **66.9** | | 1.2 | 0.69 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Lead** | **92.4** | | 1.2 | 0.56 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Manganese** | **397** | | 1.2 | 0.34 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Nickel** | **24.4** | | 6.1 | 0.30 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| Selenium | ND | | 4.9 | 0.97 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| Silver | ND | | 0.73 | 0.24 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |
| **Zinc** | **185** | | 2.4 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:40 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.076** | | 0.026 | 0.0060 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:35 | 1 |

## Client Sample ID: TP-13 1-2FT

**Lab Sample ID: 480-221604-13**
**Date Collected: 07/12/24 10:25**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 75.7**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 220 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Acenaphthylene** | **70** | **J** | 220 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Anthracene** | **73** | **J** | 220 | 55 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Benzo(a)anthracene** | **330** | | 220 | 22 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Benzo(a)pyrene** | **330** | | 220 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Benzo(b)fluoranthene** | **460** | | 220 | 35 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Benzo(g,h,i)perylene** | **170** | **J** | 220 | 23 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Benzo(k)fluoranthene** | **220** | | 220 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Chrysene** | **390** | | 220 | 49 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Dibenz(a,h)anthracene** | **61** | **J** | 220 | 39 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| Dibenzofuran | ND | | 220 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Fluoranthene** | **890** | | 220 | 23 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Fluorene** | **43** | **J** | 220 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| Hexachlorobenzene | ND | | 220 | 30 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **170** | **J** | 220 | 27 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| m-Cresol | ND | | 430 | 34 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| Naphthalene | ND | | 220 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| 1,4-Dioxane | ND | | 130 | 71 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| o-Cresol | ND | | 220 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| p-Cresol | ND | | 430 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| Pentachlorophenol | ND | | 430 | 220 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Phenanthrene** | **510** | | 220 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| Phenol | ND | | 220 | 34 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |
| **Pyrene** | **630** | | 220 | 26 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 19:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *96* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 19:59* | *1* |
| *2-Fluorobiphenyl* | *83* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 19:59* | *1* |
| *2-Fluorophenol* | *76* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 19:59* | *1* |

## Client Sample ID: TP-13 1-2FT

**Lab Sample ID: 480-221604-13**

**Date Collected: 07/12/24 10:25**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 75.7**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *71* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 19:59* | *1* |
| *Phenol-d5* | *82* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 19:59* | *1* |
| *p-Terphenyl-d14* | *88* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 19:59* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Arsenic** | **6.1** | | 2.5 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Barium** | **174** | | 0.63 | 0.18 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Beryllium** | **0.91** | | 0.25 | 0.050 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Cadmium** | **0.73** | | 0.25 | 0.088 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Chromium** | **19.1** | | 0.63 | 0.45 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Copper** | **62.0** | | 1.3 | 0.71 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Lead** | **171** | | 1.3 | 0.58 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Manganese** | **343** | | 1.3 | 0.35 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Nickel** | **24.2** | | 6.3 | 0.31 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| Selenium | ND | | 5.0 | 1.0 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| Silver | ND | | 0.75 | 0.25 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |
| **Zinc** | **201** | | 2.5 | 1.3 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:41 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Mercury** | **0.14** | | 0.026 | 0.0059 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:42 | 1 |

## Client Sample ID: TP-14 1-2FT

**Lab Sample ID: 480-221604-14**

**Date Collected: 07/12/24 10:40**
**Matrix: Solid**
**Date Received: 07/12/24 14:02**
**Percent Solids: 71.9**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Acenaphthene** | **62** | **J** | 240 | 35 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Acenaphthylene** | **140** | **J** | 240 | 31 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Anthracene** | **220** | **J** | 240 | 58 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Benzo(a)anthracene** | **860** | | 240 | 24 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Benzo(a)pyrene** | **830** | | 240 | 35 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Benzo(b)fluoranthene** | **1200** | | 240 | 37 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Benzo(g,h,i)perylene** | **360** | | 240 | 25 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Benzo(k)fluoranthene** | **510** | | 240 | 31 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Chrysene** | **940** | | 240 | 53 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Dibenz(a,h)anthracene** | **150** | **J** | 240 | 42 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Dibenzofuran** | **46** | **J** | 240 | 28 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Fluoranthene** | **2200** | | 240 | 25 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Fluorene** | **120** | **J** | 240 | 28 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| Hexachlorobenzene | ND | | 240 | 32 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Indeno(1,2,3-cd)pyrene** | **380** | | 240 | 29 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| m-Cresol | ND | | 460 | 36 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| **Naphthalene** | **36** | **J** | 240 | 31 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| 1,4-Dioxane | ND | | 140 | 76 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| o-Cresol | ND | | 240 | 28 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| p-Cresol | ND | | 460 | 28 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| Pentachlorophenol | ND | | 460 | 240 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

**Client Sample ID: TP-14 1-2FT**
**Date Collected: 07/12/24 10:40**
**Date Received: 07/12/24 14:02**

**Lab Sample ID: 480-221604-14**
**Matrix: Solid**
**Percent Solids: 71.9**

### Method: SW846 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Phenanthrene | 1300 | | 240 | 35 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| Phenol | ND | | 240 | 36 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |
| Pyrene | 1600 | | 240 | 28 | ug/Kg | ☼ | 07/16/24 07:37 | 07/18/24 20:27 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *105* | | *26 - 143* | *07/16/24 07:37* | *07/18/24 20:27* | *1* |
| *2-Fluorobiphenyl* | *88* | | *50 - 121* | *07/16/24 07:37* | *07/18/24 20:27* | *1* |
| *2-Fluorophenol* | *80* | | *36 - 120* | *07/16/24 07:37* | *07/18/24 20:27* | *1* |
| *Nitrobenzene-d5* | *76* | | *40 - 121* | *07/16/24 07:37* | *07/18/24 20:27* | *1* |
| *Phenol-d5* | *85* | | *41 - 120* | *07/16/24 07:37* | *07/18/24 20:27* | *1* |
| *p-Terphenyl-d14* | *92* | | *46 - 143* | *07/16/24 07:37* | *07/18/24 20:27* | *1* |

### Method: SW846 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 14.7 | | 2.8 | 1.2 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Barium | 141 | | 0.69 | 0.19 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Beryllium | 1.2 | | 0.28 | 0.055 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Cadmium | 2.0 | | 0.28 | 0.096 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Chromium | 31.9 | | 0.69 | 0.50 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Copper | 107 | | 1.4 | 0.79 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Lead | 148 | | 1.4 | 0.63 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Manganese | 263 | | 1.4 | 0.39 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Nickel | 37.2 | | 6.9 | 0.34 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Selenium | 2.2 | J | 5.5 | 1.1 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Silver | 0.33 | J | 0.83 | 0.28 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |
| Zinc | 465 | | 2.8 | 1.4 | mg/Kg | ☼ | 07/15/24 13:07 | 07/16/24 15:43 | 1 |

### Method: SW846 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | 0.15 | | 0.027 | 0.0062 | mg/Kg | ☼ | 07/15/24 09:13 | 07/15/24 12:43 | 1 |

# Surrogate Summary

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Matrix: Solid**

**Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID | Client Sample ID | TBP (26-143) | FBP (50-121) | 2FP (36-120) | NBZ (40-121) | PHL (41-120) | TPHd14 (46-143) | | |
| 480-221604-1 | TP-1 1-2FT | 95 | 90 | 86 | 79 | 88 | 89 | | |
| 480-221604-1 MS | TP-1 1-2FT | 110 | 96 | 91 | 83 | 94 | 98 | | |
| 480-221604-1 MSD | TP-1 1-2FT | 105 | 94 | 80 | 83 | 86 | 89 | | |
| 480-221604-2 | TP-2 1-2FT | 101 | 98 | 85 | 82 | 97 | 92 | | |
| 480-221604-3 | TP-3 1-2FT | 100 | 85 | 76 | 68 | 83 | 91 | | |
| 480-221604-4 | TP-4 1-2FT | 103 | 86 | 80 | 71 | 77 | 88 | | |
| 480-221604-5 | TP-5 1-2FT | 106 | 82 | 72 | 69 | 72 | 89 | | |
| 480-221604-7 | TP-7 1-2FT | 89 | 86 | 82 | 69 | 83 | 88 | | |
| 480-221604-9 | TP-9 1-2FT | 107 | 94 | 81 | 77 | 75 | 90 | | |
| 480-221604-9 - DL | TP-9 1-2FT | 0 S1- | 88 | 102 | 74 | 77 | 90 | | |
| 480-221604-11 | TP-11 2-3FT | 85 | 82 | 81 | 67 | 81 | 83 | | |
| 480-221604-13 | TP-13 1-2FT | 96 | 83 | 76 | 71 | 82 | 88 | | |
| 480-221604-14 | TP-14 1-2FT | 105 | 88 | 80 | 76 | 85 | 92 | | |
| LCS 480-718528/2-A | Lab Control Sample | 106 | 91 | 84 | 85 | 93 | 99 | | |
| MB 480-718528/1-A | Method Blank | 98 | 87 | 82 | 82 | 87 | 97 | | |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHd14 = p-Terphenyl-d14

## Method: 8270D - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 480-718528/1-A**
**Matrix: Solid**
**Analysis Batch: 718573**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 718528**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | | 170 | 25 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Acenaphthylene | ND | | 170 | 22 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Anthracene | ND | | 170 | 42 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Benzo(a)anthracene | ND | | 170 | 17 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Benzo(a)pyrene | ND | | 170 | 25 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Benzo(b)fluoranthene | ND | | 170 | 27 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Benzo(g,h,i)perylene | ND | | 170 | 18 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Benzo(k)fluoranthene | ND | | 170 | 22 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Chrysene | ND | | 170 | 38 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Dibenz(a,h)anthracene | ND | | 170 | 30 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Dibenzofuran | ND | | 170 | 20 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Fluoranthene | ND | | 170 | 18 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Fluorene | ND | | 170 | 20 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Hexachlorobenzene | ND | | 170 | 23 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | | 170 | 21 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| m-Cresol | ND | | 330 | 26 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Naphthalene | ND | | 170 | 22 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| 1,4-Dioxane | ND | | 100 | 55 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| o-Cresol | ND | | 170 | 20 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| p-Cresol | ND | | 330 | 20 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Pentachlorophenol | ND | | 330 | 170 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Phenanthrene | ND | | 170 | 25 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Phenol | ND | | 170 | 26 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |
| Pyrene | ND | | 170 | 20 | ug/Kg | | 07/16/24 07:37 | 07/17/24 17:35 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *98* | | *26 - 143* | *07/16/24 07:37* | *07/17/24 17:35* | *1* |
| *2-Fluorobiphenyl* | *87* | | *50 - 121* | *07/16/24 07:37* | *07/17/24 17:35* | *1* |
| *2-Fluorophenol* | *82* | | *36 - 120* | *07/16/24 07:37* | *07/17/24 17:35* | *1* |
| *Nitrobenzene-d5* | *82* | | *40 - 121* | *07/16/24 07:37* | *07/17/24 17:35* | *1* |
| *Phenol-d5* | *87* | | *41 - 120* | *07/16/24 07:37* | *07/17/24 17:35* | *1* |
| *p-Terphenyl-d14* | *97* | | *46 - 143* | *07/16/24 07:37* | *07/17/24 17:35* | *1* |

**Lab Sample ID: LCS 480-718528/2-A**
**Matrix: Solid**
**Analysis Batch: 718573**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 718528**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 1330 | 1250 | | ug/Kg | | 94 | 62 - 120 |
| Acenaphthylene | 1330 | 1270 | | ug/Kg | | 95 | 58 - 121 |
| Anthracene | 1330 | 1360 | | ug/Kg | | 102 | 62 - 120 |
| Benzo(a)anthracene | 1330 | 1380 | | ug/Kg | | 104 | 65 - 120 |
| Benzo(a)pyrene | 1330 | 1360 | | ug/Kg | | 102 | 64 - 120 |
| Benzo(b)fluoranthene | 1330 | 1420 | | ug/Kg | | 106 | 64 - 120 |
| Benzo(g,h,i)perylene | 1330 | 1530 | | ug/Kg | | 115 | 45 - 145 |
| Benzo(k)fluoranthene | 1330 | 1340 | | ug/Kg | | 101 | 65 - 120 |
| Chrysene | 1330 | 1330 | | ug/Kg | | 100 | 64 - 120 |
| Dibenz(a,h)anthracene | 1330 | 1560 | | ug/Kg | | 117 | 54 - 132 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 480-718528/2-A**
**Matrix: Solid**
**Analysis Batch: 718573**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 718528**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Dibenzofuran | 1330 | 1290 | | ug/Kg | | 97 | 63 - 120 |
| Fluoranthene | 1330 | 1360 | | ug/Kg | | 102 | 62 - 120 |
| Fluorene | 1330 | 1310 | | ug/Kg | | 98 | 63 - 120 |
| Hexachlorobenzene | 1330 | 1420 | | ug/Kg | | 106 | 60 - 120 |
| Indeno(1,2,3-cd)pyrene | 1330 | 1530 | | ug/Kg | | 115 | 56 - 134 |
| Naphthalene | 1330 | 1160 | | ug/Kg | | 87 | 55 - 120 |
| 1,4-Dioxane | 1330 | 643 | | ug/Kg | | 48 | 23 - 120 |
| o-Cresol | 1330 | 1270 | | ug/Kg | | 95 | 54 - 120 |
| p-Cresol | 1330 | 1290 | | ug/Kg | | 97 | 55 - 120 |
| Pentachlorophenol | 2670 | 1910 | | ug/Kg | | 72 | 10 - 120 |
| Phenanthrene | 1330 | 1350 | | ug/Kg | | 101 | 60 - 120 |
| Phenol | 1330 | 1260 | | ug/Kg | | 95 | 53 - 120 |
| Pyrene | 1330 | 1350 | | ug/Kg | | 101 | 61 - 133 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *106* | | *26 - 143* |
| *2-Fluorobiphenyl* | *91* | | *50 - 121* |
| *2-Fluorophenol* | *84* | | *36 - 120* |
| *Nitrobenzene-d5* | *85* | | *40 - 121* |
| *Phenol-d5* | *93* | | *41 - 120* |
| *p-Terphenyl-d14* | *99* | | *46 - 143* |

**Lab Sample ID: 480-221604-1 MS**
**Matrix: Solid**
**Analysis Batch: 718824**

**Client Sample ID: TP-1 1-2FT**
**Prep Type: Total/NA**
**Prep Batch: 718528**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2200 | J F1 | 1790 | 4910 | F1 | ug/Kg | ☼ | 154 | 60 - 120 |
| Acenaphthylene | 390 | J | 1790 | 1920 | J | ug/Kg | ☼ | 86 | 58 - 121 |
| Anthracene | 4800 | F1 F2 | 1790 | 8560 | F1 | ug/Kg | ☼ | 211 | 62 - 120 |
| Benzo(a)anthracene | 9900 | F2 | 1790 | 15700 | 4 | ug/Kg | ☼ | 323 | 65 - 120 |
| Benzo(a)pyrene | 9300 | F2 | 1790 | 14300 | 4 | ug/Kg | ☼ | 279 | 64 - 120 |
| Benzo(b)fluoranthene | 13000 | F2 | 1790 | 16900 | 4 | ug/Kg | ☼ | 238 | 10 - 150 |
| Benzo(g,h,i)perylene | 5700 | F1 F2 | 1790 | 9840 | F1 | ug/Kg | ☼ | 230 | 45 - 145 |
| Benzo(k)fluoranthene | 4500 | F1 | 1790 | 9950 | F1 | ug/Kg | ☼ | 307 | 23 - 150 |
| Chrysene | 9700 | F2 | 1790 | 15200 | 4 | ug/Kg | ☼ | 307 | 64 - 120 |
| Dibenz(a,h)anthracene | 1800 | J F1 | 1790 | 3930 | | ug/Kg | ☼ | 118 | 54 - 132 |
| Dibenzofuran | 1200 | J F1 F2 | 1790 | 3300 | | ug/Kg | ☼ | 116 | 62 - 120 |
| Fluoranthene | 25000 | F2 | 1790 | 39600 | E 4 | ug/Kg | ☼ | 817 | 62 - 120 |
| Fluorene | 2100 | J F1 F2 | 1790 | 4580 | F1 | ug/Kg | ☼ | 137 | 63 - 120 |
| Hexachlorobenzene | ND | | 1790 | 1810 | J | ug/Kg | ☼ | 101 | 60 - 120 |
| Indeno(1,2,3-cd)pyrene | 5000 | F1 F2 | 1790 | 8960 | F1 | ug/Kg | ☼ | 223 | 56 - 134 |
| Naphthalene | 480 | J | 1790 | 1970 | J | ug/Kg | ☼ | 84 | 46 - 120 |
| 1,4-Dioxane | ND | | 1790 | 880 | J | ug/Kg | ☼ | 49 | 13 - 120 |
| o-Cresol | ND | | 1790 | 1750 | J | ug/Kg | ☼ | 98 | 48 - 120 |
| p-Cresol | ND | | 1790 | 1740 | J | ug/Kg | ☼ | 97 | 50 - 120 |
| Pentachlorophenol | ND | | 3570 | 4560 | | ug/Kg | ☼ | 128 | 10 - 136 |
| Phenanthrene | 21000 | F2 | 1790 | 33300 | 4 | ug/Kg | ☼ | 701 | 60 - 122 |

## Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 480-221604-1 MS**
**Matrix: Solid**
**Analysis Batch: 718824**

**Client Sample ID: TP-1 1-2FT**
**Prep Type: Total/NA**
**Prep Batch: 718528**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | ND | | 1790 | 1790 | J | ug/Kg | ☼ | 100 | 50 - 120 |
| Pyrene | 19000 | | 1790 | 29200 | 4 | ug/Kg | ☼ | 598 | 61 - 133 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *110* | | *26 - 143* |
| *2-Fluorobiphenyl* | *96* | | *50 - 121* |
| *2-Fluorophenol* | *91* | | *36 - 120* |
| *Nitrobenzene-d5* | *83* | | *40 - 121* |
| *Phenol-d5* | *94* | | *41 - 120* |
| *p-Terphenyl-d14* | *98* | | *46 - 143* |

**Lab Sample ID: 480-221604-1 MSD**
**Matrix: Solid**
**Analysis Batch: 718824**

**Client Sample ID: TP-1 1-2FT**
**Prep Type: Total/NA**
**Prep Batch: 718528**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 2200 | J F1 | 1800 | 5870 | F1 | ug/Kg | ☼ | 206 | 60 - 120 | 18 | 35 |
| Acenaphthylene | 390 | J | 1800 | 2160 | J | ug/Kg | ☼ | 98 | 58 - 121 | 12 | 18 |
| Anthracene | 4800 | F1 F2 | 1800 | 10800 | F1 F2 | ug/Kg | ☼ | 334 | 62 - 120 | 23 | 15 |
| Benzo(a)anthracene | 9900 | F2 | 1800 | 20100 | 4 F2 | ug/Kg | ☼ | 567 | 65 - 120 | 25 | 15 |
| Benzo(a)pyrene | 9300 | F2 | 1800 | 17700 | 4 F2 | ug/Kg | ☼ | 469 | 64 - 120 | 22 | 15 |
| Benzo(b)fluoranthene | 13000 | F2 | 1800 | 22100 | 4 F2 | ug/Kg | ☼ | 527 | 10 - 150 | 27 | 15 |
| Benzo(g,h,i)perylene | 5700 | F1 F2 | 1800 | 11700 | F1 F2 | ug/Kg | ☼ | 332 | 45 - 145 | 17 | 15 |
| Benzo(k)fluoranthene | 4500 | F1 | 1800 | 11100 | F1 | ug/Kg | ☼ | 370 | 23 - 150 | 11 | 22 |
| Chrysene | 9700 | F2 | 1800 | 18500 | 4 F2 | ug/Kg | ☼ | 493 | 64 - 120 | 20 | 15 |
| Dibenz(a,h)anthracene | 1800 | J F1 | 1800 | 4310 | F1 | ug/Kg | ☼ | 139 | 54 - 132 | 9 | 15 |
| Dibenzofuran | 1200 | J F1 F2 | 1800 | 4000 | F1 F2 | ug/Kg | ☼ | 154 | 62 - 120 | 19 | 15 |
| Fluoranthene | 25000 | F2 | 1800 | 48300 | E 4 F2 | ug/Kg | ☼ | 1297 | 62 - 120 | 20 | 15 |
| Fluorene | 2100 | J F1 F2 | 1800 | 5600 | F1 F2 | ug/Kg | ☼ | 193 | 63 - 120 | 20 | 15 |
| Hexachlorobenzene | ND | | 1800 | 1720 | J | ug/Kg | ☼ | 95 | 60 - 120 | 5 | 15 |
| Indeno(1,2,3-cd)pyrene | 5000 | F1 F2 | 1800 | 10900 | F1 F2 | ug/Kg | ☼ | 328 | 56 - 134 | 19 | 15 |
| Naphthalene | 480 | J | 1800 | 2380 | | ug/Kg | ☼ | 105 | 46 - 120 | 19 | 29 |
| 1,4-Dioxane | ND | | 1800 | 782 | J | ug/Kg | ☼ | 43 | 13 - 120 | 12 | 50 |
| o-Cresol | ND | | 1800 | 1700 | J | ug/Kg | ☼ | 94 | 48 - 120 | 3 | 27 |
| p-Cresol | ND | | 1800 | 1800 | J | ug/Kg | ☼ | 100 | 50 - 120 | 4 | 24 |
| Pentachlorophenol | ND | | 3600 | 4640 | | ug/Kg | ☼ | 129 | 10 - 136 | 2 | 35 |
| Phenanthrene | 21000 | F2 | 1800 | 41100 | E 4 F2 | ug/Kg | ☼ | 1131 | 60 - 122 | 21 | 15 |
| Phenol | ND | | 1800 | 1670 | J | ug/Kg | ☼ | 92 | 50 - 120 | 7 | 35 |
| Pyrene | 19000 | | 1800 | 35600 | 4 | ug/Kg | ☼ | 949 | 61 - 133 | 20 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *105* | | *26 - 143* |
| *2-Fluorobiphenyl* | *94* | | *50 - 121* |
| *2-Fluorophenol* | *80* | | *36 - 120* |
| *Nitrobenzene-d5* | *83* | | *40 - 121* |
| *Phenol-d5* | *86* | | *41 - 120* |
| *p-Terphenyl-d14* | *89* | | *46 - 143* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 480-718444/1-A**
**Matrix: Solid**
**Analysis Batch: 718685**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 718444**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | ND | | 2.0 | 0.88 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Barium | ND | | 0.50 | 0.14 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Beryllium | ND | | 0.20 | 0.040 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Cadmium | ND | | 0.20 | 0.070 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Chromium | ND | | 0.50 | 0.36 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Copper | ND | | 1.0 | 0.57 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Lead | ND | | 1.0 | 0.46 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Manganese | ND | | 1.0 | 0.28 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Nickel | ND | | 5.0 | 0.25 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Selenium | ND | | 4.0 | 0.80 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Silver | ND | | 0.60 | 0.20 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |
| Zinc | ND | | 2.0 | 1.0 | mg/Kg | | 07/15/24 13:07 | 07/16/24 15:04 | 1 |

**Lab Sample ID: LCSSRM 480-718444/2-A**
**Matrix: Solid**
**Analysis Batch: 718685**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 718444**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Arsenic | 180 | 152.3 | | mg/Kg | | 84.6 | 70.0 - 130.0 |
| Barium | 431 | 369.5 | | mg/Kg | | 85.7 | 74.9 - 125.1 |
| Beryllium | 121 | 106.6 | | mg/Kg | | 88.1 | 74.8 - 124.8 |
| Cadmium | 199 | 169.7 | | mg/Kg | | 85.3 | 74.9 - 125.1 |
| Chromium | 210 | 180.6 | | mg/Kg | | 86.0 | 70.0 - 130.0 |
| Copper | 229 | 185.4 | | mg/Kg | | 81.0 | 75.1 - 124.9 |
| Lead | 261 | 237.8 | | mg/Kg | | 91.1 | 78.2 - 121.1 |
| Manganese | 316 | 283.6 | | mg/Kg | | 89.8 | 74.7 - 125.0 |
| Nickel | 108 | 90.14 | | mg/Kg | | 83.5 | 69.8 - 129.6 |
| Selenium | 117 | 93.09 | | mg/Kg | | 79.6 | 65.8 - 133.3 |
| Silver | 65.5 | 57.84 | | mg/Kg | | 88.3 | 70.5 - 129.3 |
| Zinc | 264 | 223.9 | | mg/Kg | | 84.8 | 69.7 - 129.5 |

**Lab Sample ID: 480-221604-2 MS**
**Matrix: Solid**
**Analysis Batch: 718685**

**Client Sample ID: TP-2 1-2FT**
**Prep Type: Total/NA**
**Prep Batch: 718444**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 5.8 | | 263 | 202.3 | | mg/Kg | ☼ | 75 | 75 - 125 |
| Barium | 368 | F1 | 263 | 524.3 | F1 | mg/Kg | ☼ | 59 | 75 - 125 |
| Beryllium | 3.1 | | 132 | 105.6 | | mg/Kg | ☼ | 78 | 75 - 125 |
| Cadmium | 2.3 | | 132 | 106.0 | | mg/Kg | ☼ | 79 | 75 - 125 |

## Method: 6010C - Metals (ICP) (Continued)

**Lab Sample ID: 480-221604-2 MS**
**Matrix: Solid**
**Analysis Batch: 718685**

**Client Sample ID: TP-2 1-2FT**
**Prep Type: Total/NA**
**Prep Batch: 718444**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chromium | 14.6 | | 132 | 117.3 | | mg/Kg | ☼ | 78 | 75 - 125 |
| Copper | 76.2 | | 132 | 191.0 | | mg/Kg | ☼ | 87 | 75 - 125 |
| Lead | 164 | | 132 | 297.6 | | mg/Kg | ☼ | 102 | 75 - 125 |
| Manganese | 1390 | F2 | 132 | 893.1 | 4 | mg/Kg | ☼ | -380 | 75 - 125 |
| Nickel | 13.0 | | 132 | 116.1 | | mg/Kg | ☼ | 78 | 75 - 125 |
| Selenium | 2.2 | J F1 | 263 | 174.6 | F1 | mg/Kg | ☼ | 66 | 75 - 125 |
| Silver | 0.65 | J | 13.2 | 10.91 | | mg/Kg | ☼ | 78 | 75 - 125 |
| Zinc | 212 | F1 | 132 | 381.4 | F1 | mg/Kg | ☼ | 128 | 75 - 125 |

**Lab Sample ID: 480-221604-2 MSD**
**Matrix: Solid**
**Analysis Batch: 718685**

**Client Sample ID: TP-2 1-2FT**
**Prep Type: Total/NA**
**Prep Batch: 718444**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | 5.8 | | 251 | 193.2 | | mg/Kg | ☼ | 75 | 75 - 125 | 5 | 20 |
| Barium | 368 | F1 | 251 | 586.8 | | mg/Kg | ☼ | 87 | 75 - 125 | 11 | 20 |
| Beryllium | 3.1 | | 126 | 101.8 | | mg/Kg | ☼ | 79 | 75 - 125 | 4 | 20 |
| Cadmium | 2.3 | | 126 | 101.6 | | mg/Kg | ☼ | 79 | 75 - 125 | 4 | 20 |
| Chromium | 14.6 | | 126 | 110.0 | | mg/Kg | ☼ | 76 | 75 - 125 | 6 | 20 |
| Copper | 76.2 | | 126 | 175.8 | | mg/Kg | ☼ | 79 | 75 - 125 | 8 | 20 |
| Lead | 164 | | 126 | 297.3 | | mg/Kg | ☼ | 106 | 75 - 125 | 0 | 20 |
| Manganese | 1390 | F2 | 126 | 1152 | 4 F2 | mg/Kg | ☼ | -192 | 75 - 125 | 25 | 20 |
| Nickel | 13.0 | | 126 | 107.0 | | mg/Kg | ☼ | 75 | 75 - 125 | 8 | 20 |
| Selenium | 2.2 | J F1 | 251 | 167.1 | F1 | mg/Kg | ☼ | 66 | 75 - 125 | 4 | 20 |
| Silver | 0.65 | J | 12.6 | 10.55 | | mg/Kg | ☼ | 79 | 75 - 125 | 3 | 20 |
| Zinc | 212 | F1 | 126 | 316.8 | | mg/Kg | ☼ | 83 | 75 - 125 | 18 | 20 |

## Method: 7471B - Mercury (CVAA)

**Lab Sample ID: MB 480-718352/1-A**
**Matrix: Solid**
**Analysis Batch: 718456**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 718352**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.020 | 0.0046 | mg/Kg | | 07/15/24 09:13 | 07/15/24 11:51 | 1 |

**Lab Sample ID: LCSSRM 480-718352/2-A ^10**
**Matrix: Solid**
**Analysis Batch: 718456**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 718352**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 19.1 | 19.60 | | mg/Kg | | 102.6 | 59.7 - 139.8 |

**Lab Sample ID: MB 480-718355/1-A**
**Matrix: Solid**
**Analysis Batch: 718456**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 718355**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.020 | 0.0047 | mg/Kg | | 07/15/24 09:13 | 07/15/24 12:31 | 1 |

## Method: 7471B - Mercury (CVAA) (Continued)

**Lab Sample ID: LCSSRM 480-718355/2-A ^10**
**Matrix: Solid**
**Analysis Batch: 718456**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 718355**

| Analyte | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Mercury | 19.1 | 19.35 | | mg/Kg | | 101 | 51 - 149 |

## GC/MS Semi VOA

### Prep Batch: 718528

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-9 - DL | TP-9 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | 3550C | |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | 3550C | |
| MB 480-718528/1-A | Method Blank | Total/NA | Solid | 3550C | |
| LCS 480-718528/2-A | Lab Control Sample | Total/NA | Solid | 3550C | |
| 480-221604-1 MS | TP-1 1-2FT | Total/NA | Solid | 3550C | |
| 480-221604-1 MSD | TP-1 1-2FT | Total/NA | Solid | 3550C | |

### Analysis Batch: 718573

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| MB 480-718528/1-A | Method Blank | Total/NA | Solid | 8270D | 718528 |
| LCS 480-718528/2-A | Lab Control Sample | Total/NA | Solid | 8270D | 718528 |

### Analysis Batch: 718824

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-1 MS | TP-1 1-2FT | Total/NA | Solid | 8270D | 718528 |
| 480-221604-1 MSD | TP-1 1-2FT | Total/NA | Solid | 8270D | 718528 |

### Analysis Batch: 718966

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-9 - DL | TP-9 1-2FT | Total/NA | Solid | 8270D | 718528 |

## Metals

### Prep Batch: 718352

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 7471B | |
| MB 480-718352/1-A | Method Blank | Total/NA | Solid | 7471B | |

## Metals (Continued)

### Prep Batch: 718352 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSSRM 480-718352/2-A ^1 | Lab Control Sample | Total/NA | Solid | 7471B | |

### Prep Batch: 718355

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | 7471B | |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | 7471B | |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | 7471B | |
| MB 480-718355/1-A | Method Blank | Total/NA | Solid | 7471B | |
| LCSSRM 480-718355/2-A ^1 | Lab Control Sample | Total/NA | Solid | 7471B | |

### Prep Batch: 718444

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | 3050B | |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | 3050B | |
| MB 480-718444/1-A | Method Blank | Total/NA | Solid | 3050B | |
| LCSSRM 480-718444/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| 480-221604-2 MS | TP-2 1-2FT | Total/NA | Solid | 3050B | |
| 480-221604-2 MSD | TP-2 1-2FT | Total/NA | Solid | 3050B | |

### Analysis Batch: 718456

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | 7471B | 718352 |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | 7471B | 718352 |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | 7471B | 718352 |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | 7471B | 718352 |
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | 7471B | 718352 |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 7471B | 718352 |
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | 7471B | 718355 |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | 7471B | 718355 |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | 7471B | 718355 |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | 7471B | 718355 |
| MB 480-718352/1-A | Method Blank | Total/NA | Solid | 7471B | 718352 |
| MB 480-718355/1-A | Method Blank | Total/NA | Solid | 7471B | 718355 |
| LCSSRM 480-718352/2-A ^1 | Lab Control Sample | Total/NA | Solid | 7471B | 718352 |
| LCSSRM 480-718355/2-A ^1 | Lab Control Sample | Total/NA | Solid | 7471B | 718355 |

### Analysis Batch: 718685

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | 6010C | 718444 |

## Metals (Continued)

### Analysis Batch: 718685 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | 6010C | 718444 |
| MB 480-718444/1-A | Method Blank | Total/NA | Solid | 6010C | 718444 |
| LCSSRM 480-718444/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 718444 |
| 480-221604-2 MS | TP-2 1-2FT | Total/NA | Solid | 6010C | 718444 |
| 480-221604-2 MSD | TP-2 1-2FT | Total/NA | Solid | 6010C | 718444 |

### Analysis Batch: 718735

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | 6010C | 718444 |

## General Chemistry

### Analysis Batch: 718395

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-2 | TP-2 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-3 | TP-3 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-4 | TP-4 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-5 | TP-5 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-7 | TP-7 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-9 | TP-9 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-11 | TP-11 2-3FT | Total/NA | Solid | Moisture | |
| 480-221604-13 | TP-13 1-2FT | Total/NA | Solid | Moisture | |
| 480-221604-14 | TP-14 1-2FT | Total/NA | Solid | Moisture | |

# Lab Chronicle

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Client Sample ID: TP-1 1-2FT
**Date Collected: 07/12/24 08:05**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-1
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-1 1-2FT
**Date Collected: 07/12/24 08:05**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-1
**Matrix: Solid**
**Percent Solids: 74.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 10 | 718824 | JMM | EET BUF | 07/18/24 16:19 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:07 |
| Total/NA | Prep | 7471B | | | 718352 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:21 |

## Client Sample ID: TP-2 1-2FT
**Date Collected: 07/12/24 08:20**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-2
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-2 1-2FT
**Date Collected: 07/12/24 08:20**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-2
**Matrix: Solid**
**Percent Solids: 78.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 5 | 718824 | JMM | EET BUF | 07/18/24 16:46 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:15 |
| Total/NA | Prep | 7471B | | | 718352 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:22 |

## Client Sample ID: TP-3 1-2FT
**Date Collected: 07/12/24 08:30**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-3
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

# Lab Chronicle

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Client Sample ID: TP-3 1-2FT
**Date Collected: 07/12/24 08:30**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-3
**Matrix: Solid**
**Percent Solids: 68.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 1 | 718824 | JMM | EET BUF | 07/18/24 17:13 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:24 |
| Total/NA | Prep | 7471B | | | 718352 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:24 |

## Client Sample ID: TP-4 1-2FT
**Date Collected: 07/12/24 08:40**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-4
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-4 1-2FT
**Date Collected: 07/12/24 08:40**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-4
**Matrix: Solid**
**Percent Solids: 79.3**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 20 | 718824 | JMM | EET BUF | 07/18/24 17:41 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:26 |
| Total/NA | Prep | 7471B | | | 718352 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:25 |

## Client Sample ID: TP-5 1-2FT
**Date Collected: 07/12/24 08:50**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-5
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-5 1-2FT
**Date Collected: 07/12/24 08:50**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-5
**Matrix: Solid**
**Percent Solids: 73.0**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 10 | 718824 | JMM | EET BUF | 07/18/24 18:09 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:28 |
| Total/NA | Prep | 7471B | | | 718352 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:26 |

# Lab Chronicle

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Client Sample ID: TP-7 1-2FT
**Date Collected: 07/12/24 09:20**
**Date Received: 07/12/24 14:02**

**Lab Sample ID: 480-221604-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-7 1-2FT
**Date Collected: 07/12/24 09:20**
**Date Received: 07/12/24 14:02**

**Lab Sample ID: 480-221604-7**
**Matrix: Solid**
**Percent Solids: 71.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 5 | 718824 | JMM | EET BUF | 07/18/24 18:36 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 20 | 718735 | NZG | EET BUF | 07/17/24 11:22 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:30 |
| Total/NA | Prep | 7471B | | | 718352 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:28 |

## Client Sample ID: TP-9 1-2FT
**Date Collected: 07/12/24 09:40**
**Date Received: 07/12/24 14:02**

**Lab Sample ID: 480-221604-9**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-9 1-2FT
**Date Collected: 07/12/24 09:40**
**Date Received: 07/12/24 14:02**

**Lab Sample ID: 480-221604-9**
**Matrix: Solid**
**Percent Solids: 83.4**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 20 | 718824 | JMM | EET BUF | 07/18/24 19:04 |
| Total/NA | Prep | 3550C | DL | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | DL | 50 | 718966 | JMM | EET BUF | 07/19/24 16:31 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:38 |
| Total/NA | Prep | 7471B | | | 718355 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:34 |

## Client Sample ID: TP-11 2-3FT
**Date Collected: 07/12/24 10:05**
**Date Received: 07/12/24 14:02**

**Lab Sample ID: 480-221604-11**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

# Lab Chronicle

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

## Client Sample ID: TP-11 2-3FT
**Date Collected: 07/12/24 10:05**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-11
**Matrix: Solid**
**Percent Solids: 78.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 5 | 718824 | JMM | EET BUF | 07/18/24 19:32 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:40 |
| Total/NA | Prep | 7471B | | | 718355 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:35 |

## Client Sample ID: TP-13 1-2FT
**Date Collected: 07/12/24 10:25**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-13
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-13 1-2FT
**Date Collected: 07/12/24 10:25**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-13
**Matrix: Solid**
**Percent Solids: 75.7**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 1 | 718824 | JMM | EET BUF | 07/18/24 19:59 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:41 |
| Total/NA | Prep | 7471B | | | 718355 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:42 |

## Client Sample ID: TP-14 1-2FT
**Date Collected: 07/12/24 10:40**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-14
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | Moisture | | 1 | 718395 | DSC | EET BUF | 07/14/24 14:31 |

## Client Sample ID: TP-14 1-2FT
**Date Collected: 07/12/24 10:40**
**Date Received: 07/12/24 14:02**

## Lab Sample ID: 480-221604-14
**Matrix: Solid**
**Percent Solids: 71.9**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3550C | | | 718528 | DP | EET BUF | 07/16/24 07:37 |
| Total/NA | Analysis | 8270D | | 1 | 718824 | JMM | EET BUF | 07/18/24 20:27 |
| Total/NA | Prep | 3050B | | | 718444 | ET | EET BUF | 07/15/24 13:07 |
| Total/NA | Analysis | 6010C | | 1 | 718685 | NZG | EET BUF | 07/16/24 15:43 |
| Total/NA | Prep | 7471B | | | 718355 | ESB | EET BUF | 07/15/24 09:13 |
| Total/NA | Analysis | 7471B | | 1 | 718456 | ESB | EET BUF | 07/15/24 12:43 |

# Lab Chronicle

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

**Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Accreditation/Certification Summary

Client: Professional Drafting Services/PDS
Job ID: 480-221604-1
Project/Site: 127 Clayton

## Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|---|---|---|---|
| New York | NELAP | 10026 | 03-31-25 |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte |
|---|---|---|---|
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

# Method Summary

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270D | Semivolatile Organic Compounds (GC/MS) | SW846 | EET BUF |
| 6010C | Metals (ICP) | SW846 | EET BUF |
| 7471B | Mercury (CVAA) | SW846 | EET BUF |
| Moisture | Percent Moisture | EPA | EET BUF |
| 3050B | Preparation, Metals | SW846 | EET BUF |
| 3550C | Ultrasonic Extraction | SW846 | EET BUF |
| 7471B | Preparation, Mercury | SW846 | EET BUF |

**Protocol References:**

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

# Sample Summary

Client: Professional Drafting Services/PDS
Project/Site: 127 Clayton

Job ID: 480-221604-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-221604-1 | TP-1 1-2FT | Solid | 07/12/24 08:05 | 07/12/24 14:02 |
| 480-221604-2 | TP-2 1-2FT | Solid | 07/12/24 08:20 | 07/12/24 14:02 |
| 480-221604-3 | TP-3 1-2FT | Solid | 07/12/24 08:30 | 07/12/24 14:02 |
| 480-221604-4 | TP-4 1-2FT | Solid | 07/12/24 08:40 | 07/12/24 14:02 |
| 480-221604-5 | TP-5 1-2FT | Solid | 07/12/24 08:50 | 07/12/24 14:02 |
| 480-221604-7 | TP-7 1-2FT | Solid | 07/12/24 09:20 | 07/12/24 14:02 |
| 480-221604-9 | TP-9 1-2FT | Solid | 07/12/24 09:40 | 07/12/24 14:02 |
| 480-221604-11 | TP-11 2-3FT | Solid | 07/12/24 10:05 | 07/12/24 14:02 |
| 480-221604-13 | TP-13 1-2FT | Solid | 07/12/24 10:25 | 07/12/24 14:02 |
| 480-221604-14 | TP-14 1-2FT | Solid | 07/12/24 10:40 | 07/12/24 14:02 |

Lei 8, 10, 12

**Eurofins Buffalo**
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: PETE GORTON | Lab PM: Beninati, John | Carrier Tracking No(s): | COC No: 480-197890-40586.1 |
|---|---|---|---|---|
| Client Contact: Mr. Akos Seres | Phone: 716-308-8220 | E-Mail: John.Beninati@et.eurofinsus.com | State of Origin: | Page: Page 1 of 2 |
| Company: Professional Drafting Services/PDS | PWSID: | | | Job #: |
| Address: 255 Geat Arrow Avenue Suite 102 | Due Date Requested: | | | |
| City: Buffalo | TAT Requested (days): | | | |
| State, Zip: NY, 14207 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 716-583-0315(Tel) | PO #: Advance Payment Required | | | |
| Email: aseres@caddrafting.com | WO #: | | | |
| Project Name: Part 375 Soil Analysis | Project #: 48027568 | | | |
| Site: 127 CLAYTON | SSOW#: | | | |

**Analysis Requested**

Preservation Codes: N - None

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C, 7471B, 8270D | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | Preservation Code: | | | | | N | | |
| TP-1 1-2FT | 7-12-24 | 805 | G | Solid | | | X | | |
| TP-2 1-2FT | | 820 | | Solid | | | | | |
| TP-3 1-2 FT | | 830 | | Solid | | | | | |
| TP-4 1-2FT | | 840 | | Solid | | | | | |
| TP-5 1-2FT | | 850 | | Solid | | | | | |
| TP-6 1-2 FT | | 9:12 | | Solid | | | | | HOLD ANALYSIS |
| TP-7 1-2 FT | | 9:20 | | Solid | | | | | |
| TP-8 1-2 | | 9:25 | | Solid | | | | | HOLD |
| TP-9 1-2 FT | | 9.40 | | Solid | | | | | |
| TP-10 2-3 FT | | 9:55 | | Solid | | | | | HOLD |
| TP-11 2-3 FT | | 1005 | | Solid | | | | | |

480-221604 Chain of Custody

*Possible Hazard Identification*
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|---|
| | Relinquished by: | Date/Time: 7-12-24 202 | Company | Received by: KS | Date/Time: 7/12/24 1402 | Company |
| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 21.5 #1 Ice

Ver: 04/02/2024

**Eurofins Buffalo**
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

# Chain of Custody Record

eurofins | Environment Testing

| Client Information | Sampler: PETER GORTON | Lab PM: Beninati, John | Carrier Tracking No(s): | COC No: 480-197890-40586.2 |
|---|---|---|---|---|
| Client Contact: Mr. Akos Seres | Phone: 716-308-8220 | E-Mail: John.Beninati@et.eurofinsus.com | State of Origin: | Page: Page 2 of 2 |
| Company: Professional Drafting Services/PDS | PWSID: | | | Job #: |
| Address: 255 Geat Arrow Avenue Suite 102 | Due Date Requested: | | | |
| City: Buffalo | TAT Requested (days): | | | |
| State, Zip: NY, 14207 | Compliance Project: Δ Yes Δ No | | | |
| Phone: 716-583-0315(Tel) | PO #: Advance Payment Required | | | |
| Email: aseres@caddrafting.com | WO #: | | | |
| Project Name: Part 375 Soil Analysis | Project #: 48027568 | | | |
| Site: | SSOW#: | | | |

**Analysis Requested**

Preservation Codes: N - None

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 6010C, 7471B, 8270D | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|
| | | | Preservation Code: | | | | N | | |
| TP-12 2-3 FT | 7/12/2024 | 10:15 | G | Solid | | | | | HOLD ANALYSIS |
| TP-13 1-2 FT | " | 10:25 | G | Solid | | | | | |
| TP-14 1-2 FT | " | 10:40 | G | Solid | | | | | |

*Possible Hazard Identification*
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

*Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)*
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: |
|---|---|---|---|

| | Relinquished by | Date/Time | Company | Received by | Date/Time | Company |
|---|---|---|---|---|---|---|
| | [signature] | 7-12-24 202 | | KS | 7/12/24 1402 | |
| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |
| | Relinquished by: | Date/Time: | Company | Received by: | Date/Time: | Company |

| Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: |
|---|---|---|

Ver: 04/02/2024

# Login Sample Receipt Checklist

Client: Professional Drafting Services/PDS

Job Number: 480-221604-1

**Login Number: 221604**
**List Number: 1**
**Creator: Yeager, Brian A**

**List Source: Eurofins Buffalo**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time (Excluding tests with immediate HTs).. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | N/A | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | False | |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | True | |
| Chlorine Residual checked. | N/A | |