



Phase II Environmental Investigation Report

Copper Village Site
338 Jane Street
Rome, New York

July 2026

Prepared for:

Pennrose, LLC
45 Main Street, Suite 539
Brooklyn, New York 11201

Prepared by:

**Roux Environmental Engineering
and Geology, D.P.C.**
2558 Hamburg Turnpike, Suite 300
Buffalo, New York 14218

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1.0 Introduction

1.1 Background and Site Description

Roux Environmental Engineering and Geology, D.P.C. (Roux) performed a Phase II Environmental Investigation on behalf of Pennrose, LLC (Pennrose) at the Copper Village Site, 338 Jane Street, Rome, Oneida County, New York (collectively referred to herein as the Site). Roux understands that this investigation was performed for due diligence purposes prior to potential purchase and/or redevelopment of the Site under the New York State (NYS) Brownfield Cleanup Program (BCP). Phase II investigation activities included test pit excavation with soil/fill laboratory analysis and review of a previous Phase I Environmental Site Assessment (ESA) involving the Site. Roux notes, as summarized below, the previous assessment involved a greater property and Roux's investigation focused on the specific portion of the greater property subject to this report. The Phase II investigation and following report have been completed in general accordance with DER-10 Chapter 3 and ASTM E1903-19 guidance.

The Site is located in a mixed-use commercial and residential area of the City of Rome, New York (see Figure 1). However, as shown on Figure 2 the Site is currently vacant/wooded land and is slated for redevelopment consisting entirely of affordable housing. The Site is located in an area that has access to all public utilities, including municipal sanitary sewer, electric, natural-gas, and public potable water. The Site consists of one (1) parcel totaling approximately 2.6-acres. Information relative to the Site parcel, as provided by the City of Rome Online Property Information, is provided below:

Street No.	Street Name	Tax ID No.	Zoning	Current Owner	Current Use / Property Class
338	Jane Street	242.073-2-72	W – Waterfront	Human Technologies Properties	330 – Vacant Commercial

The scope of work for the Phase II investigation was derived based on recognized environmental conditions (RECs) identified for the Site and greater property by Hillman Consulting LLC (Hillman) through completion of a Phase I ESA, dated March 29, 2023; see Section 1.2 below for additional information. As noted above, the Phase I was completed for a greater property and Roux's investigation work was completed as such, therefore, Phase II investigation location IDs are not in numerical order as some locations are considered off-site and not subject to the specific parcel discussed in this report.

1.2 Previous Investigations

1.2.1 Phase I ESA – March 29, 2023

As detailed in Hillman's Phase I ESA, RECs were identified for the greater property as follows:

- “Due to the prior agricultural usage, there is the potential that pesticides and herbicides applications previously occurred at the site. Therefore, the historic agricultural usage from at least 1952 through 1960 represents a REC.”

Hillman provided the following recommendation:

- “Hillmann recommends the following: a Limited Phase II investigation to determine if the historic agricultural use of the Subject Property has impacted the sub-surface.”

1.2.2 Historic Aerial Review

Prior to Site investigation activities, Roux reviewed historic aerial photographs as an initial Site survey to determine potential areas of concern (AOCs) and determine specific investigation locations. Review of historical aerial photographs revealed the presence of unknown disturbance within the southern and eastern portions of the Site between 1941 and 1997 (see Attachment 1).

2.0 Site Investigation Activities

2.1 Test Pit Investigation

On March 4, 2024, using an excavator, Roux completed seven test pits (TP-6 through TP-11, and TP-14) across the Site to a target depth of eight feet below ground surface (fbgs). Investigation locations are shown on Figure 3.

The removed soils were observed for field characterization of the subsurface lithology and collection of soil samples by Roux's Qualified Environmental Professional (QEP). The physical characteristics of all test pits were classified using the ASTM D2488 Visual-Manual Procedure Description. The soils from each test pit were screened for total volatile organics using a MiniRae 3000 photoionization detector (PID). Visual and/or olfactory observations, if any, were noted. All field observations, including lithology, depths, PID scan results, etc. at each investigation location are summarized on the test pits logs provided as Attachment 2.

Five soil/fill samples (TP-7, TP-9 through TP-11, and TP-14) selected for laboratory analysis were transported under chain-of-command to Eurofins Buffalo (Eurofins) in Amherst, New York for analysis of polycyclic aromatic hydrocarbons (PAHs) and Resource Conservation and Recovery Act (RCRA) metals. In addition, due to field observations, laboratory analysis was expanded to include New York State Department of Environmental Conservation (NYSDEC) Target Compound List (TCL) plus Commissioner Policy 51 (CP-51) volatile organic compounds (VOCs) at one investigation location (TP-9). Samples were collected in laboratory provided sample bottles and cooled to 4°C ($\pm 2^{\circ}\text{C}$) prior to transport to the laboratory.

3.0 Investigation Findings

3.1 Site Geology/Hydrogeology

The overburden geology/lithology observed during the test pit investigation is generally described as urban fill consisting of grey/brown or black soils intermingled with black fines, ash, glass, metals, plastics, tile, cinders, brick, and wood at select locations at depths up to two (2) feet below ground surface (fbgs). Fill material was underlain by native lean clay up to at least eight (8) fbgs. Additional information relating to geology/lithology is provided on the test pit logs (Attachment 2).

Groundwater was not encountered during Phase II investigation activities.

3.2 Field Observations

Soil/fill samples from the test pit investigation were observed and scanned for VOCs using a PID. Petroleum-like odors and an elevated PID reading of 5 parts per million (ppm) were noted at TP-9 within the fill unit (upper 2 fbgs). Investigation locations are shown on Figure 3. A summary of field observations is provided below. Additional information relating to field observations is provided on the test pit logs (Attachment 2).

Investigation Location ID	Environmental Concern Assessed	Highest PID Reading and Depth	Other Observations
TP-6	General Site coverage	0 ppm	None
TP-7	Unknown disturbances	0 ppm	Fill materials in upper 1 fbgs
TP-8	General Site coverage	0 ppm	None
TP-9	Unknown disturbances	5 ppm; 0-2 fbgs	Fill materials to 2 fbgs
TP-10	Unknown disturbances	0 ppm	Fill materials to 2 fbgs
TP-11	Unknown disturbances	0 ppm	Fill materials to 2 fbgs
TP-14	Unknown disturbances	0 ppm	Fill materials in upper 1 fbgs

3.3 Laboratory Analytical Results

Laboratory analytical results were provided by Eurofins in a report dated March 15, 2024. This laboratory analytical report is provided in Attachment 3, and a written summary of laboratory analytical results is provided below.

3.3.1 Soil/Fill Analytical Results

Laboratory analytical results indicate the presence of elevated polycyclic aromatic hydrocarbons (PAHs) and metals in fill material samples collected from the Site with concentrations exceeding Part 375 Soil Cleanup Objectives (SCOs). Specifically, as summarized on the attached Table 1,

elevated metals with concentrations exceeding their respective Part 375 Unrestricted SCOs¹ (USCOs), Restricted Residential SCOs (RRSCOs), Commercial SCOs (CSCOs), and/or Industrial SCOs (ISCOs) were identified at TP-7, TP-9 through TP-11, and TP-14. Of note, mercury significantly exceeded its ISCO of 0.81 mg/Kg at TP-10 (239 mg/Kg); cadmium exceeded its CSCO of 9.3 mg/Kg at TP-9 (15.7 mg/Kg); and barium, cadmium, and lead exceeded their respective CSCOs of 400mg/Kg, 9.3 mg/Kg, and 1,000 mg/Kg at TP-14 (481 mg/Kg, 11.7 mg/Kg, and 3,380 mg/Kg, respectively). The fill sample from TP-14 also yielded elevated PAHs with concentrations exceeding their respective SCOs, including ISCOs. Volatile organic compounds (VOCs) were either non-detect or at concentrations below USCOs in the fill sample from TP-9 where petroleum-like odors and an elevated PID reading were identified; the lack of VOCs typically indicates the presence of weathered petroleum.

It should be noted that the mercury exceedance at TP-10 is well over 200 times the applicable limit of its respective ISCO. As a general rule, the United States Environmental Protection Agency (USEPA) uses the 20x rule as a hazardous waste screening method where total concentration results are divided by 20 to estimate if a solid waste exceeds its Toxicity Characteristic Leaching Procedure (TCLP) limit as outlined in Table 1 of Section 261.24 CFR Title 40 and USEPA Publication SW-846. Based on the total mercury concentration at TP-10, mercury is likely to be at hazardous levels in this area, subject to further testing and laboratory analysis.

¹ Soil/fill sample results were compared to the previous Part 375 SCO values (effective between December 14, 2006 and December 31, 2025) as samples were collected on March 4, 2024.

4.0 Conclusions and Recommendations

Based on the results of the Phase II investigation at the Site, Roux offers the following conclusions and recommendations:

- The Site has a history of agricultural operations based on review of the previous Phase I ESA, which is considered a REC.
- Based on review of historic aerial photographs, unknown disturbances were present on-Site between 1941 and 1997.
- Petroleum-like odors and elevated PID readings were observed at TP-9.
- Impacted fill is present on-Site consisting of elevated PAHs and metals exceeding applicable Part 375 SCOs, specifically mercury exceeding its respective ISCO by well over 200 times.
- We understand that the vacant/underutilized Site is slated for redevelopment. Based on the findings detailed above the Site is a potential candidate for the NYS BCP, subject to formal entry and approval by the NYSDEC. Regardless of whether the BCP is pursued, PAHs- and metals-impacted soil/fill materials present on-Site will require exposure control, remediation, and/or proper soil management either prior to or during the redevelopment project.

5.0 Limitations

This report has been prepared for the exclusive use of Pennrose, LLC. The contents of this report are limited to information available at the time of the Site investigation activities and to data referenced herein, and assume all referenced historic information sources to be true and accurate. The findings herein may be relied upon only at the discretion of Pennrose, LLC. Use of or reliance on this report or its findings by any other person or entity is prohibited without written permission of Roux Environmental Engineering and Geology, D.P.C.

6.0 References

1. 6NYCRR Part 375 – Environmental Remediation Programs. December 14, 2006.
2. NYSDEC DER-10 – “Technical Guidance for Site Investigation and Remediation.” May 2010.
3. ASTM E1903-19 – “Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.” 2019.
4. Hillman Consulting, LLC. *Phase I Environmental Site Assessment, Copper Village, Section 242.018-Block 1-Lot 46, Section 242.073-Block 1 - Lots 19, 20, and 21, Section 242.073 - Block 2 - Lot 72, 73, Section 242.082- Block 1-Lots 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 19, 20, and 21, Rome, New York 13440.* March 29, 2023.

TABLE



TABLE 1
SUMMARY OF SOIL/FILL ANALYTICAL RESULTS
COPPER VILLAGE SITE
ROME, NEW YORK

PARAMETER ¹	Unrestricted Use SCOs ²	Restricted Residential Use SCOs ²	Commercial Use SCOs ²	Industrial Use SCOs ²	SAMPLE LOCATION (DEPTH)				
					TP-7 0-2 ft	TP-9 0-2 ft	TP-10 1-2 ft	TP-11 0-2 ft	TP-14 0-1 ft
					03/04/2024				
Volatile Organic Compounds (VOCs) - mg/kg ⁴									
Benzene	0.06	4.8	44	44	--	0.00053 J F1	--	--	--
Ethylbenzene	1	41	390	390	--	0.00066 J F1	--	--	--
Total Xylene	0.26	100	500	1000	--	0.005 J F1	--	--	--
Acetone	0.05	100	500	1000	--	0.008 J F1	--	--	--
1,2,4-Trichlorobenzene	3.6	52	190	380	--	0.0013 J F1	--	--	--
1,3,5-Trimethylbenzene	8.4	52	190	190	--	0.0018 J F1	--	--	--
1,2,4-Trimethylbenzene	3.6	52	190	190	--	0.0053 J F1	--	--	--
4-Isopropyltoluene	--	--	--	--	--	0.001 J F1	--	--	--
Methyl cyclohexane	--	--	--	--	--	0.0013 J F1	--	--	--
Polyaromatic Hydrocarbons (PAHs) ³									
Benzo(a)anthracene	1	1	5.6	11	0.058 J	0.26 J	0.33	0.11 J	1.3 J
Benzo(a)pyrene	1	1	1	1.1	0.068 J	0.33 J	ND	ND	1.2 J
Benzo(b)fluoranthene	1	1	5.6	11	0.094 J	0.38 J	0.48	ND	1.7 J
Benzo(ghi)perylene	100	100	500	1000	0.055 J	0.31 J	0.37	0.13 J	0.79 J
Benzo(k)fluoranthene	0.8	3.9	56	110	0.036 J	ND	ND	ND	0.68 J
Chrysene	1	3.9	56	110	0.072 J	ND	ND	ND	1.2 J
Fluoranthene	100	100	500	1000	0.11 J	0.53 J	0.45	0.13 J	1.8 J
Indeno(1,2,3-cd)pyrene	0.5	0.5	5.6	11	0.048 J	ND	ND	ND	0.72 J
Naphthalene	12	100	500	1000	ND	ND	ND	ND	ND
Phenanthrene	100	100	500	1000	0.058 J	ND	ND	ND	ND
Pyrene	100	100	500	1000	0.11 J	0.67 J	0.5	0.13 J	1.7 J
Metals - mg/Kg									
Arsenic	13	16	16	16	6.2	13.4	9.2	6.1	11.7
Barium	350	400	400	10,000	137	400	294	297	481
Cadmium	2.5	4.3	9.3	60	2.3	15.7	3.3	3	11.7
Chromium	31	180	1500	6800	31.1 B	21.8 B	19.8 B	19.9 B	41.2 B
Lead	64	400	1000	3900	329	524	348 F1F2	423	3380
Mercury	0.18	0.81	2.8	5.7	0.17	0.61	239	0.22	0.28
Selenium	3.9	180	1500	6800	1.5 J	1.4 J	0.83 J	1.3 J	1.7 J
Silver	2	180	1500	6800	0.33 J	0.91	0.77 J	0.33 J	0.76 J

Notes:

- Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
- Values per 6NYCRR Part 375 Soil Cleanup Objectives (SCOs).
- Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparisons to SCLs

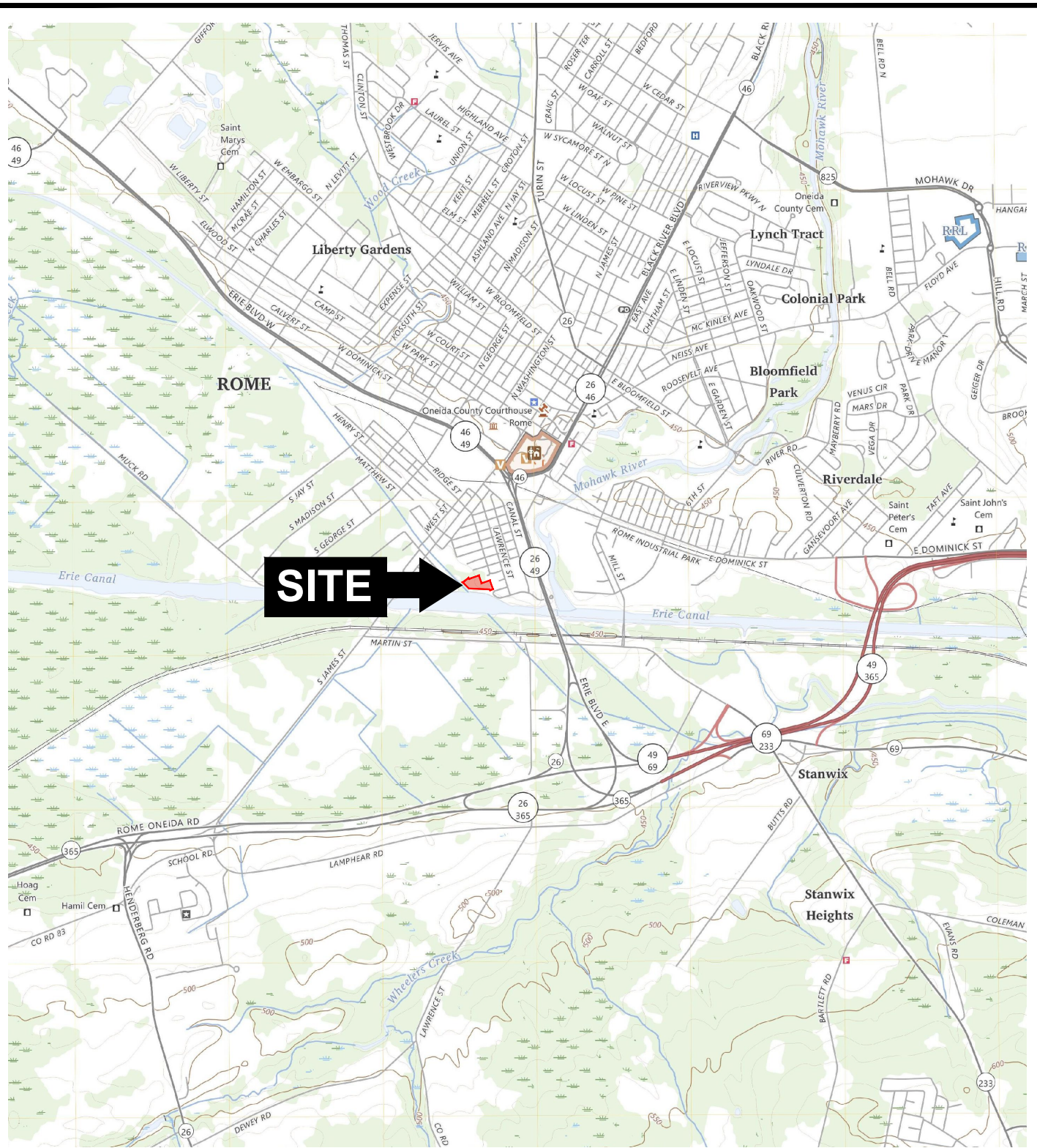
Definitions:

ND = Parameter not detected above laboratory detection limit.
 B = Compound was found in the blank and sample.
 J = Estimated value; result is less than the sample quantitation limit but greater than zero.
 F1= MS and/or MSD recovery exceeds control limits.
 F2 = MS/MSD RPD exceeds control limits.

Bold	: Results exceed Unrestricted Use SCOs
Bold	: Results exceed Restricted Residential Use SCOs
Bold	: Results exceed Commercial Use SCOs
Bold	: Results exceed Industrial Use SCOs

FIGURES

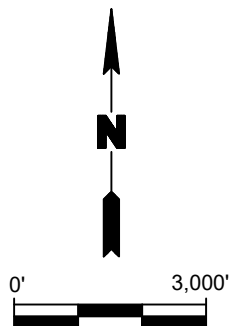
F:\CADD\ROUX\PENROSE\COPPER WATERFRONT VILLAGE ROME\BCP APPLICATION\FIGURE 1: SITE LOCATION AND VICINITY MAP.DWG



QUADRANGLE LOCATION



SOURCE:
ROME, NY, 2023
USGS 7.5 MINUTE TOPOGRAPHIC MAP



Title:
SITE LOCATION AND VICINITY MAP
Phase II Environmental Investigation

COPPER VILLAGE SITE
338 JANE STREET
ROME, NEW YORK

Prepared for:

Pennrose, LLC

ROUX

Compiled by: JJY	Date: JULY 2026
Prepared by: CMS	Scale: AS SHOWN
Project Mgr: BWM	Project: 4375.0003B000
File: FIGURE 1: SITE LOCATION AND VICINITY MAP.DWG	

FIGURE

1

F:\CAD\ROUX\PENNR\ROSE\COPPER WATERFRONT VILLAGE\BCP APPLICATION\FIGURE 2: SITE PLAN (AERIAL).DWG

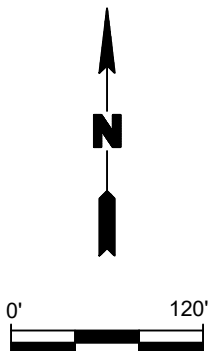


LEGEND

- PROPERTY BOUNDARY
- PARCEL BOUNDARY

NOTES

- IMAGE SOURCE BING MAPS 2024.



Title:

SITE PLAN (AERIAL)
Phase II Environmental Investigation

COPPER VILLAGE SITE
338 JANE STREET
ROME, NEW YORK

Prepared for:

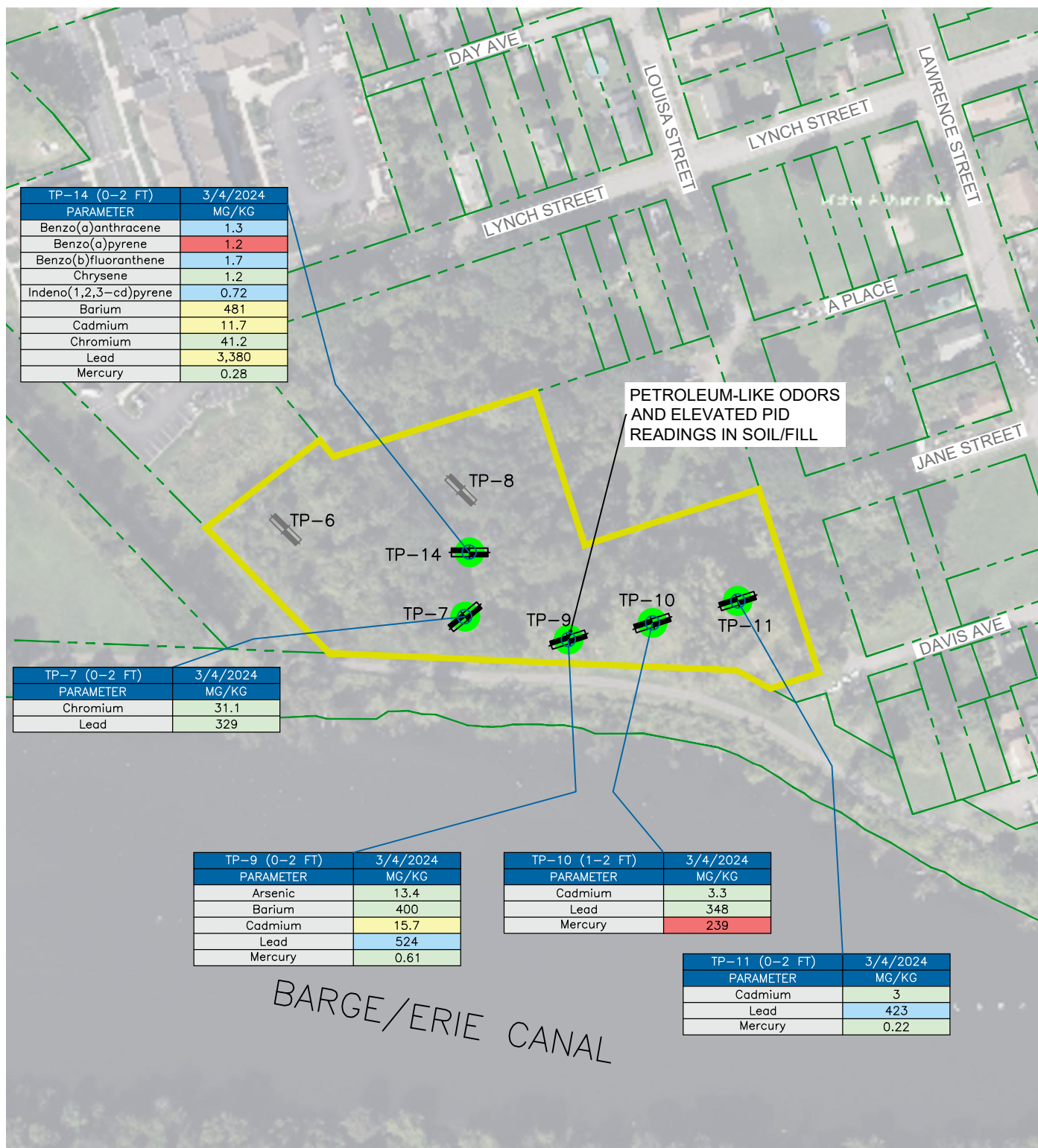
Pennrose, LLC



Compiled by: JJY	Date: JULY 2026
Prepared by: CMS	Scale: AS SHOWN
Project Mgr: BWM	Project: 4375.0003B000
File: FIGURE 2: SITE PLAN (AERIAL).DWG	

FIGURE

2

**LEGEND**

- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- TEST PIT LOCATION
- TEST PIT LOCATION (NO SAMPLING)
- FILL IDENTIFIED IN TEST PIT
- USCO EXCEEDANCE
- RRSCO EXCEEDANCE
- CSCO EXCEEDANCE
- ISCO EXCEEDANCE

NOTES

1. IMAGE SOURCE BING MAPS 2024.
2. UNKNOWN DISTURBANCES ON-SITE BETWEEN 1941 & 1997.
3. TP IDS NOT IN NUMERICAL ORDER AS THIS INVESTIGATION WAS COMPLETED ACROSS A GREATER PROPERTY.

0' 150'



Title:

TEST PIT LOCATIONS & ANALYTICAL RESULTS
Phase II Environmental InvestigationCOPPER VILLAGE SITE
338 JANE STREET
ROME, NEW YORK

Prepared for:

PENNROSE, LLC

ROUX

Compiled by: NAS

Date: JUNE 2024

FIGURE

Prepared by: NAS

Scale: AS SHOWN

Project Mgr: BWM

Project: 4375.0003B000

File: FIGURE 3: TEST PIT LOCATIONS AND ANALYTICAL RESULTS_REV.DWG

3

ATTACHMENT 1

HISTORIC AERIAL PHOTOGRAPHS

AERIALS WITH UNKNOWN DISTURBANCES

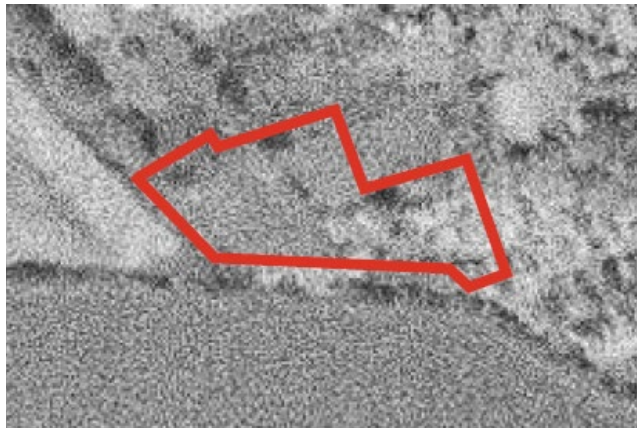
1940s



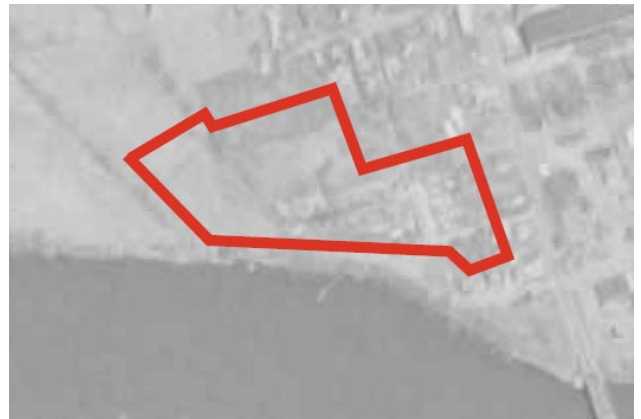
1950s



1960s



1970s



1980s

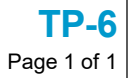


1990s



ATTACHMENT 2

TEST PIT LOGS

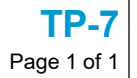


Client: Pennrose, LLC		Site: Rome BCP Site		Project Number: 4375.0003B000	
Address: Copper Village Site		City/State: Rome, NY		Logged By: NAS	
Start to Finish Date: 3/424	Contractor: Roux Inc.		Drill Type:		Sampler Type/Method:
Borehole Depth: 8 feet	Backfill:		Borehole Diameter:		DTW:
Area: NM	Elevation: NM		Northing: NM		Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
			Grey/brown, moist, mostly lean clay, some fine sand, stiff, no odors				

Bottom of test pit at 8 feet

ROUX STANDARD LOG - 6/4/25 15:35 - F:\GINT\PROJECTS\ROME BCP SITE\ROME BCP SITE TEST PIT LOGS.GPJ

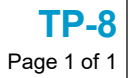


Client: Pennrose, LLC		Site: Rome BCP Site		Project Number: 4375.0003B000	
Address: Copper Village Site		City/State: New York		Logged By: NAS	
Start to Finish Date: 3/424	Contractor: Roux Inc.		Drill Type:		Sampler Type/Method:
Borehole Depth: 8 feet	Backfill:		Borehole Diameter:		DTW:
Area: NM	Elevation: NM		Northing: NM		Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Black, moist, mostly silty sand, some fill (glass, metal, plastic, tile), loose when disturbed, no odors			0	
			Grey/brown, wet, mostly lean clay, some fine sand, stiff, no odors	G	2		
	CLS						

Bottom of test pit at 8 feet

ROUX STANDARD LOG - 6/4/25 15:35 - F:\GINT\PROJECTS\ROME BCP SITE\ROME BCP SITE TEST PIT LOGS.GPJ



Client: Pennrose, LLC		Site: Rome BCP Site		Project Number: 4375.0003B000	
Address: Copper Village Site		City/State: Rome, NY		Logged By: NAS	
Start to Finish Date: 3/424	Contractor: Roux Inc.		Drill Type:		Sampler Type/Method:
Borehole Depth: 8 feet	Backfill:		Borehole Diameter:		DTW:
Area: NM	Elevation: NM		Northing: NM		Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
			Grey/brown, moist, mostly lean clay, some fine sand, stiff, no odors				

Bottom of test pit at 8 feet

ROUX STANDARD LOG - 6/4/25 15:35 - F:\GINT\PROJECTS\ROME BCP SITE\ROME BCP SITE TEST PIT LOGS.GPJ



Client: Pennrose, LLC		Site: Rome BCP Site		Project Number: 4375.0003B000	
Address: Copper Village Site		City/State: Rome, NY		Logged By: NAS	
Start to Finish Date: 3/4/24	Contractor: Roux Inc.		Drill Type:		Sampler Type/Method:
Borehole Depth: 8 feet	Backfill:		Borehole Diameter:		DTW:
Area: NM	Elevation: NM		Northing: NM		Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
						5	
	MIXD		Black/white/grey, moist, mostly fill (ash, cinders, glass, metal, brick, wood), some fine sand, petroleum-like odors	G	2		
			Grey/brown, wet, mostly lean clay, some fine sand, stiff, no odors				
5	CLS						

ROUX STANDARD LOG - 6/4/25 15:35 - F:\GINT\PROJECTS\ROME BCP SITE\ROME BCP SITE\TEST PIT LOGS.GPJ

Bottom of test pit at 8 feet



Client: Pennrose, LLC		Site: Rome BCP Site		Project Number: 4375.0003B000	
Address: Copper Village Site		City/State: Rome, NY		Logged By: NAS	
Start to Finish Date: 3/4/24		Contractor: Roux Inc.		Drill Type:	
Borehole Depth: 8 feet		Backfill:		Sampler Type/Method:	
Area: NM		Elevation: NM		DTW:	
		Northing: NM		Easting: NM	

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Asphalt				
	CONC		Concrete				
	GP		Grey, moist, mostly subangular gravel, some fine sand, loose when disturbed, no odors				
	MIXD		Black, moist, mostly fill (black fines, cinders, glass, metal, brick, ash). loose when disturbed, no odors			0	
			Grey/brown, wet, mostly lean clay, some fine sand, stiff, no odors	G	2		
5	CLS						

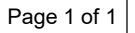
Bottom of test pit at 8 feet

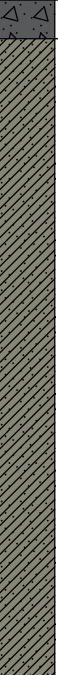


Client: Pennrose, LLC		Site: Rome BCP Site		Project Number: 4375.0003B000	
Address: Copper Village Site		City/State: Rome, NY		Logged By: NAS	
Start to Finish Date: 3/4/24	Contractor: Roux Inc.		Drill Type:		Sampler Type/Method:
Borehole Depth: 8 feet	Backfill:		Borehole Diameter:		DTW:
Area: NM	Elevation: NM		Northing: NM		Easting: NM

Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	CONC		Concrete			0	
			Black, moist, mostly fill (black fines, ash, metal, glass, cinders), some fine sand, loose when disturbed, no odors	G	2		
	MIXD		Grey/brown, wet, mostly lean clay, some fine sand, stiff, no odors				
5	CLS						

Bottom of test pit at 8 feet



Depth (ft)	USCS	USCS Graphic	Visual Description	Sample Interval	Recovery (ft)	PID	Notes
	MIXD		Black, moist, mostly silty sand, some fill (glass, metal, black fines), loose when disturbed, no odors Grey/brown, wet, mostly lean clay, some fine sand, stiff, no odors	G	1	0	
	CLS						
5							

Bottom of test pit at 8 feet

ROUX STANDARD LOG - 6/4/25 15:35 - F:\GINT\PROJECTS\ROME BCP SITE\ROME BCP SITE TEST PIT LOGS.GPJ

ATTACHMENT 3

LABORATORY ANALYTICAL REPORT

ANALYTICAL REPORT

PREPARED FOR

Attn: Bryan Mayback
Roux Environmental Engineering and Geology DPC
2558 Hamburg Turnpike
Lackawanna, New York 14218

Generated 3/15/2024 2:16:36 PM

JOB DESCRIPTION

Rome, NY BCP site

JOB NUMBER

480-217540-2

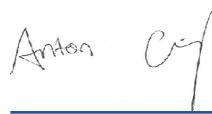
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Job Notes

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Authorization



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Authorized for release by
Anton Gruning, Project Management Assistant I
Anton.Gruning@et.eurofinsus.com
Designee for
Brian Fischer, Manager of Project Management
Brian.Fischer@et.eurofinsus.com
(716)504-9835

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Definitions/Glossary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
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
B	Compound was found in the blank and sample.
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.
α	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

Case Narrative

Client: Roux Environmental Engineering and Geology DPC
Project: Rome, NY BCP site

Job ID: 480-217540-2

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Job Narrative 480-217540-2

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 3/6/2024 11:00 AM. 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 was 2.2° C.

GC/MS VOA

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-702854 recovered above the upper control limit for Carbon tetrachloride and Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TP-9 0-2 FT (480-217540-6).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-702853 and analytical batch 480-702854 were outside control limits for one or more analytes. See QC Sample Results for detail.

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 480-702853 and analytical batch 480-702854 was outside control limits.

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

GC/MS Semi VOA

Method 8270D: The following samples were diluted due to color, appearance, and viscosity: TP-9 0-2 FT (480-217540-6), TP-10 1-2 FT (480-217540-7), TP-11 0-2 FT (480-217540-8), TP-13 0-0.5 FT (480-217540-10) and TP-14 0-1 FT (480-217540-11). Elevated reporting limits (RL) are provided.

Method 8270D: The following sample was diluted due to the nature of the sample matrix: TP-13 0-0.5 FT (480-217540-10). 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 analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3550C: The following sample: TP-13 0-0.5 FT (480-217540-10) was decanted prior to preparation .

Method 3550C: Due to the matrix, the following sample could not be concentrated to the final method required volume: TP-13 0-0.5 FT (480-217540-10). The reporting limits (RLs) are elevated proportionately.

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

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Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-4 1-3 FT

off-site

Lab Sample ID: 480-217540-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	160	J	410	41	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	160	J	410	60	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	180	J	410	65	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	130	J	410	43	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	100	J	410	53	ug/Kg	1	✱	8270D	Total/NA
Chrysene	160	J	410	91	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	310	J	410	43	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	87	J	410	50	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	190	J	410	60	ug/Kg	1	✱	8270D	Total/NA
Pyrene	270	J	410	48	ug/Kg	1	✱	8270D	Total/NA
Arsenic	20.3		4.9	0.98	mg/Kg	1	✱	6010C	Total/NA
Barium	221		1.2	0.27	mg/Kg	1	✱	6010C	Total/NA
Cadmium	4.2		0.49	0.074	mg/Kg	1	✱	6010C	Total/NA
Chromium	39.0	B	1.2	0.49	mg/Kg	1	✱	6010C	Total/NA
Lead	1390		2.5	0.59	mg/Kg	1	✱	6010C	Total/NA
Selenium	5.1	J	9.8	0.98	mg/Kg	1	✱	6010C	Total/NA
Silver	2.1		1.5	0.49	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.64		0.046	0.010	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: TP-7 0-2 FT

Lab Sample ID: 480-217540-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	58	J	270	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	68	J	270	40	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	94	J	270	43	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	55	J	270	28	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	36	J	270	35	ug/Kg	1	✱	8270D	Total/NA
Chrysene	72	J	270	60	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	110	J	270	28	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	48	J	270	33	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	58	J	270	40	ug/Kg	1	✱	8270D	Total/NA
Pyrene	110	J	270	32	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.2		3.1	0.62	mg/Kg	1	✱	6010C	Total/NA
Barium	137		0.77	0.17	mg/Kg	1	✱	6010C	Total/NA
Cadmium	2.3		0.31	0.046	mg/Kg	1	✱	6010C	Total/NA
Chromium	31.1	B	0.77	0.31	mg/Kg	1	✱	6010C	Total/NA
Lead	329		1.5	0.37	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.5	J	6.2	0.62	mg/Kg	1	✱	6010C	Total/NA
Silver	0.33	J	0.93	0.31	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.17		0.032	0.0073	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: TP-9 0-2 FT

Lab Sample ID: 480-217540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trichlorobenzene	1.3	J F1	6.1	0.37	ug/Kg	1	✱	8260C	Total/NA
1,2,4-Trimethylbenzene	5.3	J F1	6.1	1.2	ug/Kg	1	✱	8260C	Total/NA
1,3,5-Trimethylbenzene	1.8	J F1	6.1	0.39	ug/Kg	1	✱	8260C	Total/NA
4-Isopropyltoluene	1.0	J F1	6.1	0.49	ug/Kg	1	✱	8260C	Total/NA
Acetone	8.0	J F1	30	5.1	ug/Kg	1	✱	8260C	Total/NA
Benzene	0.53	J F1	6.1	0.30	ug/Kg	1	✱	8260C	Total/NA
Ethylbenzene	0.66	J F1	6.1	0.42	ug/Kg	1	✱	8260C	Total/NA
m,p-Xylene	1.1	J F1	12	1.0	ug/Kg	1	✱	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-9 0-2 FT (Continued)

Lab Sample ID: 480-217540-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylcyclohexane	1.3	J F1	6.1	0.93	ug/Kg	1	✱	8260C	Total/NA
o-Xylene	3.9	J F1	6.1	0.80	ug/Kg	1	✱	8260C	Total/NA
Xylenes, Total	5.0	J F1	12	1.0	ug/Kg	1	✱	8260C	Total/NA
Benzo[a]anthracene	260	J	2100	210	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	330	J	2100	300	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	380	J	2100	330	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	310	J	2100	220	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	530	J	2100	220	ug/Kg	10	✱	8270D	Total/NA
Pyrene	670	J	2100	240	ug/Kg	10	✱	8270D	Total/NA
Arsenic	13.4		2.4	0.48	mg/Kg	1	✱	6010C	Total/NA
Barium	400		0.60	0.13	mg/Kg	1	✱	6010C	Total/NA
Cadmium	15.7		0.24	0.036	mg/Kg	1	✱	6010C	Total/NA
Chromium	21.8	B	0.60	0.24	mg/Kg	1	✱	6010C	Total/NA
Lead	524		1.2	0.29	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.4	J	4.8	0.48	mg/Kg	1	✱	6010C	Total/NA
Silver	0.91		0.72	0.24	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.61		0.025	0.0058	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: TP-10 1-2 FT

Lab Sample ID: 480-217540-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	330	J	2300	230	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	480	J	2300	370	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	370	J	2300	240	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	450	J	2300	240	ug/Kg	10	✱	8270D	Total/NA
Pyrene	500	J	2300	270	ug/Kg	10	✱	8270D	Total/NA
Arsenic	9.2		2.8	0.56	mg/Kg	1	✱	6010C	Total/NA
Barium	294		0.69	0.15	mg/Kg	1	✱	6010C	Total/NA
Cadmium	3.3		0.28	0.042	mg/Kg	1	✱	6010C	Total/NA
Chromium	19.8	B	0.69	0.28	mg/Kg	1	✱	6010C	Total/NA
Lead	348	F1 F2	1.4	0.33	mg/Kg	1	✱	6010C	Total/NA
Selenium	0.83	J	5.6	0.56	mg/Kg	1	✱	6010C	Total/NA
Silver	0.77	J	0.83	0.28	mg/Kg	1	✱	6010C	Total/NA
Mercury	239		3.4	0.77	mg/Kg	125	✱	7471B	Total/NA

Client Sample ID: TP-11 0-2 FT

Lab Sample ID: 480-217540-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	110	J	1100	110	ug/Kg	5	✱	8270D	Total/NA
Benzo[g,h,i]perylene	130	J	1100	120	ug/Kg	5	✱	8270D	Total/NA
Fluoranthene	130	J	1100	120	ug/Kg	5	✱	8270D	Total/NA
Pyrene	130	J	1100	130	ug/Kg	5	✱	8270D	Total/NA
Arsenic	6.1		2.6	0.53	mg/Kg	1	✱	6010C	Total/NA
Barium	297		0.66	0.14	mg/Kg	1	✱	6010C	Total/NA
Cadmium	3.0		0.26	0.039	mg/Kg	1	✱	6010C	Total/NA
Chromium	19.9	B	0.66	0.26	mg/Kg	1	✱	6010C	Total/NA
Lead	423		1.3	0.32	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.3	J	5.3	0.53	mg/Kg	1	✱	6010C	Total/NA
Silver	0.33	J	0.79	0.26	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.22		0.025	0.0059	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-12 0-1 FT

off-site

Lab Sample ID: 480-217540-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	69	J	260	26	ug/Kg	1	✱	8270D	Total/NA
Benzo[a]pyrene	51	J	260	38	ug/Kg	1	✱	8270D	Total/NA
Benzo[b]fluoranthene	65	J	260	41	ug/Kg	1	✱	8270D	Total/NA
Benzo[g,h,i]perylene	45	J	260	27	ug/Kg	1	✱	8270D	Total/NA
Benzo[k]fluoranthene	42	J	260	34	ug/Kg	1	✱	8270D	Total/NA
Chrysene	72	J	260	58	ug/Kg	1	✱	8270D	Total/NA
Fluoranthene	85	J	260	27	ug/Kg	1	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	36	J	260	32	ug/Kg	1	✱	8270D	Total/NA
Naphthalene	160	J	260	34	ug/Kg	1	✱	8270D	Total/NA
Phenanthrene	170	J	260	38	ug/Kg	1	✱	8270D	Total/NA
Pyrene	94	J	260	30	ug/Kg	1	✱	8270D	Total/NA
Arsenic	6.5		3.0	0.60	mg/Kg	1	✱	6010C	Total/NA
Barium	299		0.75	0.16	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.19	J	0.30	0.045	mg/Kg	1	✱	6010C	Total/NA
Chromium	10.9	B	0.75	0.30	mg/Kg	1	✱	6010C	Total/NA
Lead	16.5		1.5	0.36	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.1	J	6.0	0.60	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.037		0.030	0.0069	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: TP-13 0-0.5 FT

off-site

Lab Sample ID: 480-217540-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		2.9	0.57	mg/Kg	1	✱	6010C	Total/NA
Barium	41.9		0.72	0.16	mg/Kg	1	✱	6010C	Total/NA
Cadmium	0.16	J	0.29	0.043	mg/Kg	1	✱	6010C	Total/NA
Chromium	11.4	B	0.72	0.29	mg/Kg	1	✱	6010C	Total/NA
Lead	43.9		1.4	0.34	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.072		0.028	0.0063	mg/Kg	1	✱	7471B	Total/NA

Client Sample ID: TP-14 0-1 FT

Lab Sample ID: 480-217540-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1300	J	3200	320	ug/Kg	10	✱	8270D	Total/NA
Benzo[a]pyrene	1200	J	3200	470	ug/Kg	10	✱	8270D	Total/NA
Benzo[b]fluoranthene	1700	J	3200	510	ug/Kg	10	✱	8270D	Total/NA
Benzo[g,h,i]perylene	790	J	3200	340	ug/Kg	10	✱	8270D	Total/NA
Benzo[k]fluoranthene	680	J	3200	410	ug/Kg	10	✱	8270D	Total/NA
Chrysene	1200	J	3200	720	ug/Kg	10	✱	8270D	Total/NA
Fluoranthene	1800	J	3200	340	ug/Kg	10	✱	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	720	J	3200	400	ug/Kg	10	✱	8270D	Total/NA
Pyrene	1700	J	3200	380	ug/Kg	10	✱	8270D	Total/NA
Arsenic	11.7		3.9	0.79	mg/Kg	1	✱	6010C	Total/NA
Barium	481		0.98	0.22	mg/Kg	1	✱	6010C	Total/NA
Cadmium	11.7		0.39	0.059	mg/Kg	1	✱	6010C	Total/NA
Chromium	41.2	B	0.98	0.39	mg/Kg	1	✱	6010C	Total/NA
Lead	3380		2.0	0.47	mg/Kg	1	✱	6010C	Total/NA
Selenium	1.7	J	7.9	0.79	mg/Kg	1	✱	6010C	Total/NA
Silver	0.76	J	1.2	0.39	mg/Kg	1	✱	6010C	Total/NA
Mercury	0.28		0.039	0.0089	mg/Kg	1	✱	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-4 1-3 FT

Lab Sample ID: 480-217540-4

Date Collected: 03/04/24 10:30

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 41.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		410	60	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Acenaphthylene	ND		410	53	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Anthracene	ND		410	100	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Benzo[a]anthracene	160	J	410	41	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Benzo[a]pyrene	160	J	410	60	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Benzo[b]fluoranthene	180	J	410	65	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Benzo[g,h,i]perylene	130	J	410	43	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Benzo[k]fluoranthene	100	J	410	53	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Chrysene	160	J	410	91	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Dibenz(a,h)anthracene	ND		410	72	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Fluoranthene	310	J	410	43	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Fluorene	ND		410	48	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Indeno[1,2,3-cd]pyrene	87	J	410	50	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Naphthalene	ND		410	53	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Phenanthrene	190	J	410	60	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Pyrene	270	J	410	48	ug/Kg	☆	03/06/24 16:32	03/07/24 21:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		60 - 120				03/06/24 16:32	03/07/24 21:34	1
Nitrobenzene-d5 (Surr)	90		53 - 120				03/06/24 16:32	03/07/24 21:34	1
p-Terphenyl-d14 (Surr)	102		79 - 130				03/06/24 16:32	03/07/24 21:34	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20.3		4.9	0.98	mg/Kg	☆	03/07/24 15:33	03/09/24 00:25	1
Barium	221		1.2	0.27	mg/Kg	☆	03/07/24 15:33	03/09/24 00:25	1
Cadmium	4.2		0.49	0.074	mg/Kg	☆	03/07/24 15:33	03/09/24 00:25	1
Chromium	39.0	B	1.2	0.49	mg/Kg	☆	03/07/24 15:33	03/11/24 23:11	1
Lead	1390		2.5	0.59	mg/Kg	☆	03/07/24 15:33	03/13/24 14:10	1
Selenium	5.1	J	9.8	0.98	mg/Kg	☆	03/07/24 15:33	03/09/24 00:25	1
Silver	2.1		1.5	0.49	mg/Kg	☆	03/07/24 15:33	03/12/24 16:50	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.64		0.046	0.010	mg/Kg	☆	03/07/24 11:41	03/08/24 10:02	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-7 0-2 FT

Lab Sample ID: 480-217540-5

Date Collected: 03/04/24 11:30

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 62.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		270	40	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Acenaphthylene	ND		270	35	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Anthracene	ND		270	66	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Benzo[a]anthracene	58	J	270	27	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Benzo[a]pyrene	68	J	270	40	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Benzo[b]fluoranthene	94	J	270	43	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Benzo[g,h,i]perylene	55	J	270	28	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Benzo[k]fluoranthene	36	J	270	35	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Chrysene	72	J	270	60	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Dibenz(a,h)anthracene	ND		270	47	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Fluoranthene	110	J	270	28	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Fluorene	ND		270	32	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Indeno[1,2,3-cd]pyrene	48	J	270	33	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Naphthalene	ND		270	35	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Phenanthrene	58	J	270	40	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Pyrene	110	J	270	32	ug/Kg	☆	03/06/24 16:32	03/07/24 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		60 - 120				03/06/24 16:32	03/07/24 21:58	1
Nitrobenzene-d5 (Surr)	60		53 - 120				03/06/24 16:32	03/07/24 21:58	1
p-Terphenyl-d14 (Surr)	81		79 - 130				03/06/24 16:32	03/07/24 21:58	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		3.1	0.62	mg/Kg	☆	03/07/24 15:33	03/09/24 00:28	1
Barium	137		0.77	0.17	mg/Kg	☆	03/07/24 15:33	03/09/24 00:28	1
Cadmium	2.3		0.31	0.046	mg/Kg	☆	03/07/24 15:33	03/09/24 00:28	1
Chromium	31.1	B	0.77	0.31	mg/Kg	☆	03/07/24 15:33	03/11/24 23:14	1
Lead	329		1.5	0.37	mg/Kg	☆	03/07/24 15:33	03/13/24 14:13	1
Selenium	1.5	J	6.2	0.62	mg/Kg	☆	03/07/24 15:33	03/09/24 00:28	1
Silver	0.33	J	0.93	0.31	mg/Kg	☆	03/07/24 15:33	03/12/24 16:54	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.17		0.032	0.0073	mg/Kg	☆	03/07/24 11:41	03/08/24 10:03	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-9 0-2 FT

Lab Sample ID: 480-217540-6

Date Collected: 03/04/24 12:30

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 81.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	6.1	0.44	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,1,2,2-Tetrachloroethane	ND	F1	6.1	0.99	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	6.1	1.4	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,1,2-Trichloroethane	ND	F1	6.1	0.79	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,1-Dichloroethane	ND	F1	6.1	0.74	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,1-Dichloroethene	ND	F1	6.1	0.75	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2,4-Trichlorobenzene	1.3	J F1	6.1	0.37	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2,4-Trimethylbenzene	5.3	J F1	6.1	1.2	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2-Dibromo-3-Chloropropane	ND	F1	6.1	3.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2-Dibromoethane	ND	F1	6.1	0.78	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2-Dichlorobenzene	ND	F1	6.1	0.48	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2-Dichloroethane	ND	F1	6.1	0.31	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,2-Dichloropropane	ND	F1	6.1	3.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,3,5-Trimethylbenzene	1.8	J F1	6.1	0.39	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,3-Dichlorobenzene	ND	F1	6.1	0.31	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
1,4-Dichlorobenzene	ND	F1	6.1	0.85	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
2-Butanone (MEK)	ND	F1	30	2.2	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
2-Hexanone	ND	F1	30	3.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
4-Isopropyltoluene	1.0	J F1	6.1	0.49	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		30	2.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Acetone	8.0	J F1	30	5.1	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Benzene	0.53	J F1	6.1	0.30	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Bromodichloromethane	ND	F1	6.1	0.82	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Bromoform	ND	F1	6.1	3.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Bromomethane	ND		6.1	0.55	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Carbon disulfide	ND	F1 F2	6.1	3.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Carbon tetrachloride	ND	F1	6.1	0.59	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Chlorobenzene	ND	F1	6.1	0.80	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Chloroethane	ND		6.1	1.4	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Chloroform	ND	F1	6.1	0.38	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Chloromethane	ND		6.1	0.37	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
cis-1,2-Dichloroethene	ND	F1	6.1	0.78	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
cis-1,3-Dichloropropene	ND	F1	6.1	0.88	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Cyclohexane	ND	F1	6.1	0.85	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Dibromochloromethane	ND	F1	6.1	0.78	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Dichlorodifluoromethane	ND		6.1	0.50	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Ethylbenzene	0.66	J F1	6.1	0.42	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Isopropylbenzene	ND	F1	6.1	0.92	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
m,p-Xylene	1.1	J F1	12	1.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Methyl acetate	ND		30	3.7	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Methyl tert-butyl ether	ND		6.1	0.60	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Methylcyclohexane	1.3	J F1	6.1	0.93	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Methylene Chloride	ND		6.1	2.8	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
n-Butylbenzene	ND	F1	6.1	0.53	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
N-Propylbenzene	ND	F1	6.1	0.49	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
o-Xylene	3.9	J F1	6.1	0.80	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
sec-Butylbenzene	ND	F1	6.1	0.53	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Styrene	ND	F1	6.1	0.30	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
tert-Butylbenzene	ND	F1	6.1	0.63	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1

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Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-9 0-2 FT

Lab Sample ID: 480-217540-6

Date Collected: 03/04/24 12:30

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 81.6

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND	F1	6.1	0.82	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Toluene	ND	F1	6.1	0.46	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
trans-1,2-Dichloroethene	ND	F1	6.1	0.63	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
trans-1,3-Dichloropropene	ND	F1	6.1	2.7	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Trichloroethene	ND	F1	6.1	1.3	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Trichlorofluoromethane	ND	F1	6.1	0.58	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Vinyl chloride	ND		6.1	0.74	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1
Xylenes, Total	5.0	J F1	12	1.0	ug/Kg	☆	03/06/24 18:03	03/07/24 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		64 - 126	03/06/24 18:03	03/07/24 02:46	1
4-Bromofluorobenzene (Surr)	99		72 - 126	03/06/24 18:03	03/07/24 02:46	1
Dibromofluoromethane (Surr)	111		60 - 140	03/06/24 18:03	03/07/24 02:46	1
Toluene-d8 (Surr)	99		71 - 125	03/06/24 18:03	03/07/24 02:46	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2100	300	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Acenaphthylene	ND		2100	270	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Anthracene	ND		2100	510	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Benzo[a]anthracene	260	J	2100	210	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Benzo[a]pyrene	330	J	2100	300	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Benzo[b]fluoranthene	380	J	2100	330	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Benzo[g,h,i]perylene	310	J	2100	220	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Benzo[k]fluoranthene	ND		2100	270	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Chrysene	ND		2100	460	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Dibenz(a,h)anthracene	ND		2100	360	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Fluoranthene	530	J	2100	220	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Fluorene	ND		2100	240	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Indeno[1,2,3-cd]pyrene	ND		2100	250	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Naphthalene	ND		2100	270	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Phenanthrene	ND		2100	300	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10
Pyrene	670	J	2100	240	ug/Kg	☆	03/06/24 16:32	03/07/24 22:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		60 - 120	03/06/24 16:32	03/07/24 22:23	10
Nitrobenzene-d5 (Surr)	75		53 - 120	03/06/24 16:32	03/07/24 22:23	10
p-Terphenyl-d14 (Surr)	79		79 - 130	03/06/24 16:32	03/07/24 22:23	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13.4		2.4	0.48	mg/Kg	☆	03/07/24 15:33	03/09/24 00:32	1
Barium	400		0.60	0.13	mg/Kg	☆	03/07/24 15:33	03/09/24 00:32	1
Cadmium	15.7		0.24	0.036	mg/Kg	☆	03/07/24 15:33	03/09/24 00:32	1
Chromium	21.8	B	0.60	0.24	mg/Kg	☆	03/07/24 15:33	03/11/24 23:18	1
Lead	524		1.2	0.29	mg/Kg	☆	03/07/24 15:33	03/13/24 14:17	1
Selenium	1.4	J	4.8	0.48	mg/Kg	☆	03/07/24 15:33	03/09/24 00:32	1
Silver	0.91		0.72	0.24	mg/Kg	☆	03/07/24 15:33	03/12/24 16:57	1

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Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-9 0-2 FT
Date Collected: 03/04/24 12:30
Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-6
Matrix: Solid
Percent Solids: 81.6

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.61		0.025	0.0058	mg/Kg	☼	03/07/24 11:41	03/08/24 10:04	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-10 1-2 FT

Lab Sample ID: 480-217540-7

Date Collected: 03/04/24 13:00

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 72.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		2300	340	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Acenaphthylene	ND		2300	300	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Anthracene	ND		2300	570	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Benzo[a]anthracene	330	J	2300	230	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Benzo[a]pyrene	ND		2300	340	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Benzo[b]fluoranthene	480	J	2300	370	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Benzo[g,h,i]perylene	370	J	2300	240	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Benzo[k]fluoranthene	ND		2300	300	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Chrysene	ND		2300	510	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Dibenz(a,h)anthracene	ND		2300	410	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Fluoranthene	450	J	2300	240	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Fluorene	ND		2300	270	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Indeno[1,2,3-cd]pyrene	ND		2300	280	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Naphthalene	ND		2300	300	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Phenanthrene	ND		2300	340	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Pyrene	500	J	2300	270	ug/Kg	☆	03/06/24 16:32	03/07/24 22:47	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		60 - 120				03/06/24 16:32	03/07/24 22:47	10
Nitrobenzene-d5 (Surr)	79		53 - 120				03/06/24 16:32	03/07/24 22:47	10
p-Terphenyl-d14 (Surr)	82		79 - 130				03/06/24 16:32	03/07/24 22:47	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.2		2.8	0.56	mg/Kg	☆	03/07/24 15:33	03/09/24 00:35	1
Barium	294		0.69	0.15	mg/Kg	☆	03/07/24 15:33	03/09/24 00:35	1
Cadmium	3.3		0.28	0.042	mg/Kg	☆	03/07/24 15:33	03/09/24 00:35	1
Chromium	19.8	B	0.69	0.28	mg/Kg	☆	03/07/24 15:33	03/11/24 23:21	1
Lead	348	F1 F2	1.4	0.33	mg/Kg	☆	03/07/24 15:33	03/13/24 14:20	1
Selenium	0.83	J	5.6	0.56	mg/Kg	☆	03/07/24 15:33	03/09/24 00:35	1
Silver	0.77	J	0.83	0.28	mg/Kg	☆	03/07/24 15:33	03/12/24 17:00	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	239		3.4	0.77	mg/Kg	☆	03/07/24 11:41	03/08/24 10:41	125

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-11 0-2 FT

Lab Sample ID: 480-217540-8

Date Collected: 03/04/24 14:00

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 76.7

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	☆	03/06/24 16:32	03/07/24 23:11	5
Acenaphthylene	ND		1100	140	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Anthracene	ND		1100	270	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Benzo[a]anthracene	110	J	1100	110	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Benzo[a]pyrene	ND		1100	160	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Benzo[b]fluoranthene	ND		1100	170	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Benzo[g,h,i]perylene	130	J	1100	120	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Benzo[k]fluoranthene	ND		1100	140	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Chrysene	ND		1100	240	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Dibenz(a,h)anthracene	ND		1100	190	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Fluoranthene	130	J	1100	120	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Fluorene	ND		1100	130	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Indeno[1,2,3-cd]pyrene	ND		1100	140	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Naphthalene	ND		1100	140	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Phenanthrene	ND		1100	160	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Pyrene	130	J	1100	130	ug/Kg	☆	03/06/24 16:32	03/07/24 23:11	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	75		60 - 120				03/06/24 16:32	03/07/24 23:11	5
Nitrobenzene-d5 (Surr)	75		53 - 120				03/06/24 16:32	03/07/24 23:11	5
p-Terphenyl-d14 (Surr)	80		79 - 130				03/06/24 16:32	03/07/24 23:11	5

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		2.6	0.53	mg/Kg	☆	03/07/24 15:33	03/09/24 01:02	1
Barium	297		0.66	0.14	mg/Kg	☆	03/07/24 15:33	03/09/24 01:02	1
Cadmium	3.0		0.26	0.039	mg/Kg	☆	03/07/24 15:33	03/09/24 01:02	1
Chromium	19.9	B	0.66	0.26	mg/Kg	☆	03/07/24 15:33	03/11/24 23:49	1
Lead	423		1.3	0.32	mg/Kg	☆	03/07/24 15:33	03/13/24 14:47	1
Selenium	1.3	J	5.3	0.53	mg/Kg	☆	03/07/24 15:33	03/09/24 01:02	1
Silver	0.33	J	0.79	0.26	mg/Kg	☆	03/07/24 15:33	03/12/24 17:27	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.22		0.025	0.0059	mg/Kg	☆	03/07/24 11:41	03/08/24 10:31	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-12 0-1 FT

Lab Sample ID: 480-217540-9

Date Collected: 03/04/24 15:00

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 64.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		260	38	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Acenaphthylene	ND		260	34	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Anthracene	ND		260	64	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Benzo[a]anthracene	69	J	260	26	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Benzo[a]pyrene	51	J	260	38	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Benzo[b]fluoranthene	65	J	260	41	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Benzo[g,h,i]perylene	45	J	260	27	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Benzo[k]fluoranthene	42	J	260	34	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Chrysene	72	J	260	58	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Dibenz(a,h)anthracene	ND		260	46	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Fluoranthene	85	J	260	27	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Fluorene	ND		260	30	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Indeno[1,2,3-cd]pyrene	36	J	260	32	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Naphthalene	160	J	260	34	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Phenanthrene	170	J	260	38	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Pyrene	94	J	260	30	ug/Kg	☆	03/06/24 16:32	03/07/24 23:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	92		60 - 120				03/06/24 16:32	03/07/24 23:35	1
Nitrobenzene-d5 (Surr)	91		53 - 120				03/06/24 16:32	03/07/24 23:35	1
p-Terphenyl-d14 (Surr)	104		79 - 130				03/06/24 16:32	03/07/24 23:35	1

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	0.60	mg/Kg	☆	03/07/24 15:33	03/09/24 01:05	1
Barium	299		0.75	0.16	mg/Kg	☆	03/07/24 15:33	03/09/24 01:05	1
Cadmium	0.19	J	0.30	0.045	mg/Kg	☆	03/07/24 15:33	03/09/24 01:05	1
Chromium	10.9	B	0.75	0.30	mg/Kg	☆	03/07/24 15:33	03/11/24 23:53	1
Lead	16.5		1.5	0.36	mg/Kg	☆	03/07/24 15:33	03/13/24 14:51	1
Selenium	1.1	J	6.0	0.60	mg/Kg	☆	03/07/24 15:33	03/09/24 01:05	1
Silver	ND		0.90	0.30	mg/Kg	☆	03/07/24 15:33	03/12/24 17:31	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.030	0.0069	mg/Kg	☆	03/07/24 11:41	03/08/24 10:32	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-13 0-0.5 FT

Lab Sample ID: 480-217540-10

Date Collected: 03/04/24 15:30

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 74.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		22000	3300	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Acenaphthylene	ND		22000	2900	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Anthracene	ND		22000	5500	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Benzo[a]anthracene	ND		22000	2200	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Benzo[a]pyrene	ND		22000	3300	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Benzo[b]fluoranthene	ND		22000	3500	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Benzo[g,h,i]perylene	ND		22000	2400	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Benzo[k]fluoranthene	ND		22000	2900	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Chrysene	ND		22000	5000	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Dibenz(a,h)anthracene	ND		22000	3900	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Fluoranthene	ND		22000	2400	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Fluorene	ND		22000	2600	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Indeno[1,2,3-cd]pyrene	ND		22000	2800	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Naphthalene	ND		22000	2900	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Phenanthrene	ND		22000	3300	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10
Pyrene	ND		22000	2600	ug/Kg	☆	03/06/24 16:32	03/07/24 23:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		60 - 120	03/06/24 16:32	03/07/24 23:59	10
Nitrobenzene-d5 (Surr)	0	S1-	53 - 120	03/06/24 16:32	03/07/24 23:59	10
p-Terphenyl-d14 (Surr)	92		79 - 130	03/06/24 16:32	03/07/24 23:59	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		2.9	0.57	mg/Kg	☆	03/07/24 15:33	03/09/24 01:09	1
Barium	41.9		0.72	0.16	mg/Kg	☆	03/07/24 15:33	03/09/24 01:09	1
Cadmium	0.16	J	0.29	0.043	mg/Kg	☆	03/07/24 15:33	03/09/24 01:09	1
Chromium	11.4	B	0.72	0.29	mg/Kg	☆	03/07/24 15:33	03/11/24 23:57	1
Lead	43.9		1.4	0.34	mg/Kg	☆	03/07/24 15:33	03/13/24 14:54	1
Selenium	ND		5.7	0.57	mg/Kg	☆	03/07/24 15:33	03/09/24 01:09	1
Silver	ND		0.86	0.29	mg/Kg	☆	03/07/24 15:33	03/12/24 17:34	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.072		0.028	0.0063	mg/Kg	☆	03/07/24 11:41	03/08/24 10:33	1

Client Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-14 0-1 FT

Lab Sample ID: 480-217540-11

Date Collected: 03/04/24 16:00

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 51.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		3200	470	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Acenaphthylene	ND		3200	410	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Anthracene	ND		3200	790	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Benzo[a]anthracene	1300	J	3200	320	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Benzo[a]pyrene	1200	J	3200	470	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Benzo[b]fluoranthene	1700	J	3200	510	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Benzo[g,h,i]perylene	790	J	3200	340	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Benzo[k]fluoranthene	680	J	3200	410	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Chrysene	1200	J	3200	720	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Dibenz(a,h)anthracene	ND		3200	570	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Fluoranthene	1800	J	3200	340	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Fluorene	ND		3200	380	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Indeno[1,2,3-cd]pyrene	720	J	3200	400	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Naphthalene	ND		3200	410	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Phenanthrene	ND		3200	470	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Pyrene	1700	J	3200	380	ug/Kg	☆	03/06/24 16:32	03/08/24 00:23	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		60 - 120				03/06/24 16:32	03/08/24 00:23	10
Nitrobenzene-d5 (Surr)	75		53 - 120				03/06/24 16:32	03/08/24 00:23	10
p-Terphenyl-d14 (Surr)	83		79 - 130				03/06/24 16:32	03/08/24 00:23	10

Method: SW846 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11.7		3.9	0.79	mg/Kg	☆	03/07/24 15:33	03/09/24 01:12	1
Barium	481		0.98	0.22	mg/Kg	☆	03/07/24 15:33	03/09/24 01:12	1
Cadmium	11.7		0.39	0.059	mg/Kg	☆	03/07/24 15:33	03/09/24 01:12	1
Chromium	41.2	B	0.98	0.39	mg/Kg	☆	03/07/24 15:33	03/12/24 00:00	1
Lead	3380		2.0	0.47	mg/Kg	☆	03/07/24 15:33	03/13/24 14:58	1
Selenium	1.7	J	7.9	0.79	mg/Kg	☆	03/07/24 15:33	03/09/24 01:12	1
Silver	0.76	J	1.2	0.39	mg/Kg	☆	03/07/24 15:33	03/12/24 17:38	1

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.28		0.039	0.0089	mg/Kg	☆	03/07/24 11:41	03/08/24 10:38	1

Surrogate Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-126)	BFB (72-126)	DBFM (60-140)	TOL (71-125)
480-217540-6	TP-9 0-2 FT	116	99	111	99
480-217540-6 MS	TP-9 0-2 FT	98	94	105	105
480-217540-6 MSD	TP-9 0-2 FT	93	96	104	105
LCS 480-702853/1-A	Lab Control Sample	109	102	111	100
MB 480-702853/2-A	Method Blank	109	102	110	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (60-120)	NBZ (53-120)	TPHd14 (79-130)
480-217540-4	TP-4 1-3 FT	94	90	102
480-217540-5	TP-7 0-2 FT	67	60	81
480-217540-6	TP-9 0-2 FT	78	75	79
480-217540-7	TP-10 1-2 FT	81	79	82
480-217540-8	TP-11 0-2 FT	75	75	80
480-217540-9	TP-12 0-1 FT	92	91	104
480-217540-10	TP-13 0-0.5 FT	72	0 S1-	92
480-217540-11	TP-14 0-1 FT	80	75	83
LCS 480-702847/2-A	Lab Control Sample	91	95	99
MB 480-702847/1-A	Method Blank	98	91	111

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-702853/2-A

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2,4-Trimethylbenzene	ND		5.0	0.96	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,3,5-Trimethylbenzene	ND		5.0	0.32	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
2-Hexanone	ND		25	2.5	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
4-Isopropyltoluene	ND		5.0	0.40	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Acetone	ND		25	4.2	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Benzene	ND		5.0	0.25	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Bromoform	ND		5.0	2.5	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Chloroform	ND		5.0	0.31	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
m,p-Xylene	ND		10	0.84	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Methyl acetate	ND		25	3.0	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
n-Butylbenzene	ND		5.0	0.44	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
N-Propylbenzene	ND		5.0	0.40	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
o-Xylene	ND		5.0	0.65	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
sec-Butylbenzene	ND		5.0	0.44	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Styrene	ND		5.0	0.25	ug/Kg		03/06/24 18:03	03/06/24 22:17	1

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-702853/2-A

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		5.0	0.52	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Toluene	ND		5.0	0.38	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/06/24 18:03	03/06/24 22:17	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/06/24 18:03	03/06/24 22:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 126	03/06/24 18:03	03/06/24 22:17	1
4-Bromofluorobenzene (Surr)	102		72 - 126	03/06/24 18:03	03/06/24 22:17	1
Dibromofluoromethane (Surr)	110		60 - 140	03/06/24 18:03	03/06/24 22:17	1
Toluene-d8 (Surr)	99		71 - 125	03/06/24 18:03	03/06/24 22:17	1

Lab Sample ID: LCS 480-702853/1-A

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	50.0	51.3		ug/Kg		103	77 - 121
1,1,2,2-Tetrachloroethane	50.0	44.7		ug/Kg		89	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.0		ug/Kg		88	60 - 140
1,1,2-Trichloroethane	50.0	46.9		ug/Kg		94	78 - 122
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	47.0		ug/Kg		94	59 - 125
1,2,4-Trichlorobenzene	50.0	47.8		ug/Kg		96	64 - 120
1,2,4-Trimethylbenzene	50.0	47.7		ug/Kg		95	74 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.8		ug/Kg		96	63 - 124
1,2-Dibromoethane	50.0	48.7		ug/Kg		97	78 - 120
1,2-Dichlorobenzene	50.0	46.5		ug/Kg		93	75 - 120
1,2-Dichloroethane	50.0	54.9		ug/Kg		110	77 - 122
1,2-Dichloropropane	50.0	50.3		ug/Kg		101	75 - 124
1,3,5-Trimethylbenzene	50.0	47.8		ug/Kg		96	74 - 120
1,3-Dichlorobenzene	50.0	48.1		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	46.9		ug/Kg		94	73 - 120
2-Butanone (MEK)	250	336		ug/Kg		134	70 - 134
2-Hexanone	250	277		ug/Kg		111	59 - 130
4-Isopropyltoluene	50.0	48.2		ug/Kg		96	74 - 120
4-Methyl-2-pentanone (MIBK)	250	264		ug/Kg		105	65 - 133
Acetone	250	342		ug/Kg		137	61 - 137
Benzene	50.0	49.1		ug/Kg		98	79 - 127
Bromodichloromethane	50.0	51.6		ug/Kg		103	80 - 122
Bromoform	50.0	50.5		ug/Kg		101	68 - 126
Bromomethane	50.0	43.6		ug/Kg		87	37 - 149
Carbon disulfide	50.0	44.9		ug/Kg		90	64 - 131
Carbon tetrachloride	50.0	53.0		ug/Kg		106	75 - 135

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-702853/1-A

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlorobenzene	50.0	48.1		ug/Kg		96	76 - 124
Chloroethane	50.0	48.1		ug/Kg		96	69 - 135
Chloroform	50.0	49.9		ug/Kg		100	80 - 120
Chloromethane	50.0	53.0		ug/Kg		106	63 - 127
cis-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	81 - 120
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	80 - 120
Cyclohexane	50.0	49.5		ug/Kg		99	65 - 120
Dibromochloromethane	50.0	52.2		ug/Kg		104	76 - 125
Dichlorodifluoromethane	50.0	52.8		ug/Kg		106	57 - 142
Ethylbenzene	50.0	48.3		ug/Kg		97	80 - 120
Isopropylbenzene	50.0	47.2		ug/Kg		94	72 - 120
m,p-Xylene	50.0	47.9		ug/Kg		96	70 - 130
Methyl acetate	100	127		ug/Kg		127	55 - 136
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	63 - 125
Methylcyclohexane	50.0	48.1		ug/Kg		96	60 - 140
Methylene Chloride	50.0	49.3		ug/Kg		99	61 - 127
n-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 120
N-Propylbenzene	50.0	47.1		ug/Kg		94	70 - 130
o-Xylene	50.0	47.9		ug/Kg		96	70 - 130
sec-Butylbenzene	50.0	48.5		ug/Kg		97	74 - 120
Styrene	50.0	46.7		ug/Kg		93	80 - 120
tert-Butylbenzene	50.0	47.9		ug/Kg		96	73 - 120
Tetrachloroethene	50.0	50.0		ug/Kg		100	74 - 122
Toluene	50.0	47.7		ug/Kg		95	74 - 128
trans-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	78 - 126
trans-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	73 - 123
Trichloroethene	50.0	50.4		ug/Kg		101	77 - 129
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	65 - 146
Vinyl chloride	50.0	47.9		ug/Kg		96	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		64 - 126
4-Bromofluorobenzene (Surr)	102		72 - 126
Dibromofluoromethane (Surr)	111		60 - 140
Toluene-d8 (Surr)	100		71 - 125

Lab Sample ID: 480-217540-6 MS

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: TP-9 0-2 FT

Prep Type: Total/NA

Prep Batch: 702853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	ND	F1	59.0	35.8	F1	ug/Kg	⊛	61	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	59.0	35.2	F1	ug/Kg	⊛	60	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	59.0	19.3	F1	ug/Kg	⊛	33	60 - 140
1,1,2-Trichloroethane	ND	F1	59.0	39.6	F1	ug/Kg	⊛	67	78 - 122
1,1-Dichloroethane	ND	F1	59.0	50.5		ug/Kg	⊛	86	73 - 126
1,1-Dichloroethene	ND	F1	59.0	37.9		ug/Kg	⊛	64	59 - 125
1,2,4-Trichlorobenzene	1.3	J F1	59.0	8.15	F1	ug/Kg	⊛	12	64 - 120

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-217540-6 MS

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: TP-9 0-2 FT

Prep Type: Total/NA

Prep Batch: 702853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trimethylbenzene	5.3	J F1	59.0	18.7	F1	ug/Kg	✖	23	74 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	59.0	28.1	F1	ug/Kg	✖	48	63 - 124
1,2-Dibromoethane	ND	F1	59.0	36.2	F1	ug/Kg	✖	61	78 - 120
1,2-Dichlorobenzene	ND	F1	59.0	15.1	F1	ug/Kg	✖	26	75 - 120
1,2-Dichloroethane	ND	F1	59.0	48.1		ug/Kg	✖	82	77 - 122
1,2-Dichloropropane	ND	F1	59.0	45.7		ug/Kg	✖	77	75 - 124
1,3,5-Trimethylbenzene	1.8	J F1	59.0	13.9	F1	ug/Kg	✖	21	74 - 120
1,3-Dichlorobenzene	ND	F1	59.0	14.6	F1	ug/Kg	✖	25	74 - 120
1,4-Dichlorobenzene	ND	F1	59.0	15.1	F1	ug/Kg	✖	26	73 - 120
2-Butanone (MEK)	ND	F1	295	185	F1	ug/Kg	✖	63	70 - 134
2-Hexanone	ND	F1	295	198		ug/Kg	✖	67	59 - 130
4-Isopropyltoluene	1.0	J F1	59.0	10.1	F1	ug/Kg	✖	15	74 - 120
4-Methyl-2-pentanone (MIBK)	ND		295	218		ug/Kg	✖	74	65 - 133
Acetone	8.0	J F1	295	160	F1	ug/Kg	✖	52	61 - 137
Benzene	0.53	J F1	59.0	41.7	F1	ug/Kg	✖	70	79 - 127
Bromodichloromethane	ND	F1	59.0	43.1	F1	ug/Kg	✖	73	80 - 122
Bromoform	ND	F1	59.0	29.6	F1	ug/Kg	✖	50	68 - 126
Bromomethane	ND		59.0	50.2		ug/Kg	✖	85	37 - 149
Carbon disulfide	ND	F1 F2	59.0	27.2	F1	ug/Kg	✖	46	64 - 131
Carbon tetrachloride	ND	F1	59.0	27.5	F1	ug/Kg	✖	47	75 - 135
Chlorobenzene	ND	F1	59.0	25.8	F1	ug/Kg	✖	44	76 - 124
Chloroethane	ND		59.0	51.1		ug/Kg	✖	87	69 - 135
Chloroform	ND	F1	59.0	47.6		ug/Kg	✖	81	80 - 120
Chloromethane	ND		59.0	59.6		ug/Kg	✖	101	63 - 127
cis-1,2-Dichloroethene	ND	F1	59.0	41.9	F1	ug/Kg	✖	71	80 - 120
cis-1,3-Dichloropropene	ND	F1	59.0	36.9	F1	ug/Kg	✖	63	80 - 120
Cyclohexane	ND	F1	59.0	14.5	F1	ug/Kg	✖	25	65 - 120
Dibromochloromethane	ND	F1	59.0	39.4	F1	ug/Kg	✖	67	76 - 125
Dichlorodifluoromethane	ND		59.0	48.2		ug/Kg	✖	82	57 - 142
Ethylbenzene	0.66	J F1	59.0	19.1	F1	ug/Kg	✖	31	80 - 120
Isopropylbenzene	ND	F1	59.0	13.2	F1	ug/Kg	✖	22	72 - 120
m,p-Xylene	1.1	J F1	59.0	18.3	F1	ug/Kg	✖	29	70 - 130
Methyl acetate	ND		118	123		ug/Kg	✖	104	55 - 136
Methyl tert-butyl ether	ND		59.0	48.1		ug/Kg	✖	82	63 - 125
Methylcyclohexane	1.3	J F1	59.0	9.94	F1	ug/Kg	✖	15	60 - 140
Methylene Chloride	ND		59.0	50.4		ug/Kg	✖	85	61 - 127
n-Butylbenzene	ND	F1	59.0	8.11	F1	ug/Kg	✖	14	70 - 120
N-Propylbenzene	ND	F1	59.0	10.8	F1	ug/Kg	✖	18	70 - 130
o-Xylene	3.9	J F1	59.0	25.1	F1	ug/Kg	✖	36	70 - 130
sec-Butylbenzene	ND	F1	59.0	8.49	F1	ug/Kg	✖	14	74 - 120
Styrene	ND	F1	59.0	19.6	F1	ug/Kg	✖	33	80 - 120
tert-Butylbenzene	ND	F1	59.0	11.3	F1	ug/Kg	✖	19	73 - 120
Tetrachloroethene	ND	F1	59.0	17.2	F1	ug/Kg	✖	29	74 - 122
Toluene	ND	F1	59.0	30.8	F1	ug/Kg	✖	52	74 - 128
trans-1,2-Dichloroethene	ND	F1	59.0	38.3	F1	ug/Kg	✖	65	78 - 126
trans-1,3-Dichloropropene	ND	F1	59.0	35.5	F1	ug/Kg	✖	60	73 - 123
Trichloroethene	ND	F1	59.0	31.1	F1	ug/Kg	✖	53	77 - 129
Trichlorofluoromethane	ND	F1	59.0	37.5	F1	ug/Kg	✖	64	65 - 146
Vinyl chloride	ND		59.0	46.6		ug/Kg	✖	79	61 - 133

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		64 - 126
4-Bromofluorobenzene (Surr)	94		72 - 126
Dibromofluoromethane (Surr)	105		60 - 140
Toluene-d8 (Surr)	105		71 - 125

Lab Sample ID: 480-217540-6 MSD

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: TP-9 0-2 FT

Prep Type: Total/NA

Prep Batch: 702853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	61.0	29.7	F1	ug/Kg	✱	49	77 - 121	19	30
1,1,2,2-Tetrachloroethane	ND	F1	61.0	32.2	F1	ug/Kg	✱	53	80 - 120	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	61.0	17.1	F1	ug/Kg	✱	28	60 - 140	12	30
1,1,2-Trichloroethane	ND	F1	61.0	37.5	F1	ug/Kg	✱	62	78 - 122	5	30
1,1-Dichloroethane	ND	F1	61.0	43.3	F1	ug/Kg	✱	71	73 - 126	15	30
1,1-Dichloroethene	ND	F1	61.0	30.2	F1	ug/Kg	✱	49	59 - 125	23	30
1,2,4-Trichlorobenzene	1.3	J F1	61.0	7.01	F1	ug/Kg	✱	9	64 - 120	15	30
1,2,4-Trimethylbenzene	5.3	J F1	61.0	19.3	F1	ug/Kg	✱	23	74 - 120	3	30
1,2-Dibromo-3-Chloropropane	ND	F1	61.0	26.0	F1	ug/Kg	✱	43	63 - 124	8	30
1,2-Dibromoethane	ND	F1	61.0	32.2	F1	ug/Kg	✱	53	78 - 120	12	30
1,2-Dichlorobenzene	ND	F1	61.0	12.0	F1	ug/Kg	✱	20	75 - 120	23	30
1,2-Dichloroethane	ND	F1	61.0	42.8	F1	ug/Kg	✱	70	77 - 122	12	30
1,2-Dichloropropane	ND	F1	61.0	38.1	F1	ug/Kg	✱	62	75 - 124	18	30
1,3,5-Trimethylbenzene	1.8	J F1	61.0	12.7	F1	ug/Kg	✱	18	74 - 120	9	30
1,3-Dichlorobenzene	ND	F1	61.0	11.7	F1	ug/Kg	✱	19	74 - 120	22	30
1,4-Dichlorobenzene	ND	F1	61.0	11.8	F1	ug/Kg	✱	19	73 - 120	25	30
2-Butanone (MEK)	ND	F1	305	173	F1	ug/Kg	✱	57	70 - 134	7	30
2-Hexanone	ND	F1	305	174	F1	ug/Kg	✱	57	59 - 130	13	30
4-Isopropyltoluene	1.0	J F1	61.0	9.15	F1	ug/Kg	✱	13	74 - 120	10	30
4-Methyl-2-pentanone (MIBK)	ND		305	201		ug/Kg	✱	66	65 - 133	8	30
Acetone	8.0	J F1	305	146	F1	ug/Kg	✱	45	61 - 137	9	30
Benzene	0.53	J F1	61.0	34.4	F1	ug/Kg	✱	55	79 - 127	19	30
Bromodichloromethane	ND	F1	61.0	35.5	F1	ug/Kg	✱	58	80 - 122	19	30
Bromoform	ND	F1	61.0	26.0	F1	ug/Kg	✱	43	68 - 126	13	30
Bromomethane	ND		61.0	42.7		ug/Kg	✱	70	37 - 149	16	30
Carbon disulfide	ND	F1 F2	61.0	19.4	F1 F2	ug/Kg	✱	32	64 - 131	33	30
Carbon tetrachloride	ND	F1	61.0	20.6	F1	ug/Kg	✱	34	75 - 135	29	30
Chlorobenzene	ND	F1	61.0	20.0	F1	ug/Kg	✱	33	76 - 124	26	30
Chloroethane	ND		61.0	43.6		ug/Kg	✱	72	69 - 135	16	30
Chloroform	ND	F1	61.0	40.7	F1	ug/Kg	✱	67	80 - 120	16	30
Chloromethane	ND		61.0	52.6		ug/Kg	✱	86	63 - 127	13	30
cis-1,2-Dichloroethene	ND	F1	61.0	35.3	F1	ug/Kg	✱	58	80 - 120	17	30
cis-1,3-Dichloropropene	ND	F1	61.0	31.7	F1	ug/Kg	✱	52	80 - 120	15	30
Cyclohexane	ND	F1	61.0	11.6	F1	ug/Kg	✱	19	65 - 120	22	30
Dibromochloromethane	ND	F1	61.0	34.6	F1	ug/Kg	✱	57	76 - 125	13	30
Dichlorodifluoromethane	ND		61.0	38.8		ug/Kg	✱	64	57 - 142	22	30
Ethylbenzene	0.66	J F1	61.0	14.7	F1	ug/Kg	✱	23	80 - 120	26	30
Isopropylbenzene	ND	F1	61.0	11.3	F1	ug/Kg	✱	18	72 - 120	15	30
m,p-Xylene	1.1	J F1	61.0	15.1	F1	ug/Kg	✱	23	70 - 130	19	30
Methyl acetate	ND		122	120		ug/Kg	✱	98	55 - 136	3	30
Methyl tert-butyl ether	ND		61.0	46.7		ug/Kg	✱	77	63 - 125	3	30

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-217540-6 MSD

Matrix: Solid

Analysis Batch: 702854

Client Sample ID: TP-9 0-2 FT

Prep Type: Total/NA

Prep Batch: 702853

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methylcyclohexane	1.3	J F1	61.0	8.48	F1	ug/Kg	⊛	12	60 - 140	16	30
Methylene Chloride	ND		61.0	43.8		ug/Kg	⊛	72	61 - 127	14	30
n-Butylbenzene	ND	F1	61.0	8.58	F1	ug/Kg	⊛	14	70 - 120	6	30
N-Propylbenzene	ND	F1	61.0	9.25	F1	ug/Kg	⊛	15	70 - 130	16	30
o-Xylene	3.9	J F1	61.0	21.2	F1	ug/Kg	⊛	28	70 - 130	17	30
sec-Butylbenzene	ND	F1	61.0	7.64	F1	ug/Kg	⊛	13	74 - 120	11	30
Styrene	ND	F1	61.0	15.1	F1	ug/Kg	⊛	25	80 - 120	26	30
tert-Butylbenzene	ND	F1	61.0	10.1	F1	ug/Kg	⊛	17	73 - 120	11	30
Tetrachloroethene	ND	F1	61.0	12.8	F1	ug/Kg	⊛	21	74 - 122	30	30
Toluene	ND	F1	61.0	24.3	F1	ug/Kg	⊛	40	74 - 128	23	30
trans-1,2-Dichloroethene	ND	F1	61.0	29.5	F1	ug/Kg	⊛	48	78 - 126	26	30
trans-1,3-Dichloropropene	ND	F1	61.0	29.4	F1	ug/Kg	⊛	48	73 - 123	19	30
Trichloroethene	ND	F1	61.0	24.7	F1	ug/Kg	⊛	40	77 - 129	23	30
Trichlorofluoromethane	ND	F1	61.0	29.5	F1	ug/Kg	⊛	48	65 - 146	24	30
Vinyl chloride	ND		61.0	38.7		ug/Kg	⊛	63	61 - 133	18	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		64 - 126
4-Bromofluorobenzene (Surr)	96		72 - 126
Dibromofluoromethane (Surr)	104		60 - 140
Toluene-d8 (Surr)	105		71 - 125

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

Lab Sample ID: MB 480-702847/1-A

Matrix: Solid

Analysis Batch: 702890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		170	25	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Acenaphthylene	ND		170	22	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Anthracene	ND		170	41	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Benzo[a]anthracene	ND		170	17	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Benzo[a]pyrene	ND		170	25	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Benzo[b]fluoranthene	ND		170	27	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Benzo[g,h,i]perylene	ND		170	18	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Benzo[k]fluoranthene	ND		170	22	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Chrysene	ND		170	37	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Dibenz(a,h)anthracene	ND		170	29	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Fluoranthene	ND		170	18	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Fluorene	ND		170	20	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Indeno[1,2,3-cd]pyrene	ND		170	21	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Naphthalene	ND		170	22	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Phenanthrene	ND		170	25	ug/Kg		03/06/24 16:32	03/07/24 15:07	1
Pyrene	ND		170	20	ug/Kg		03/06/24 16:32	03/07/24 15:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	98		60 - 120	03/06/24 16:32	03/07/24 15:07	1

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

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

Lab Sample ID: MB 480-702847/1-A
Matrix: Solid
Analysis Batch: 702890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702847

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	91		53 - 120	03/06/24 16:32	03/07/24 15:07	1
p-Terphenyl-d14 (Surr)	111		79 - 130	03/06/24 16:32	03/07/24 15:07	1

Lab Sample ID: LCS 480-702847/2-A
Matrix: Solid
Analysis Batch: 702890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 702847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1640	1500		ug/Kg		91	62 - 120
Acenaphthylene	1640	1470		ug/Kg		90	58 - 121
Anthracene	1640	1510		ug/Kg		92	62 - 120
Benzo[a]anthracene	1640	1580		ug/Kg		96	65 - 120
Benzo[a]pyrene	1640	1590		ug/Kg		97	64 - 120
Benzo[b]fluoranthene	1640	1510		ug/Kg		92	64 - 120
Benzo[g,h,i]perylene	1640	1480		ug/Kg		90	45 - 145
Benzo[k]fluoranthene	1640	1580		ug/Kg		96	65 - 120
Chrysene	1640	1490		ug/Kg		91	64 - 120
Dibenz(a,h)anthracene	1640	1490		ug/Kg		91	54 - 132
Fluoranthene	1640	1530		ug/Kg		93	62 - 120
Fluorene	1640	1500		ug/Kg		91	63 - 120
Indeno[1,2,3-cd]pyrene	1640	1510		ug/Kg		92	56 - 134
Naphthalene	1640	1400		ug/Kg		86	55 - 120
Phenanthrene	1640	1540		ug/Kg		94	60 - 120
Pyrene	1640	1630		ug/Kg		100	61 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	91		60 - 120
Nitrobenzene-d5 (Surr)	95		53 - 120
p-Terphenyl-d14 (Surr)	99		79 - 130

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-702951/1-A
Matrix: Solid
Analysis Batch: 703387

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.214	J	0.50	0.20	mg/Kg		03/07/24 15:33	03/11/24 22:53	1

Lab Sample ID: MB 480-702951/1-A
Matrix: Solid
Analysis Batch: 703541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 702951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.60	0.20	mg/Kg		03/07/24 15:33	03/12/24 16:33	1

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

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

Lab Sample ID: MB 480-702951/1-A

Matrix: Solid

Analysis Batch: 703644

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 702951

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		1.0	0.24	mg/Kg		03/07/24 15:33	03/13/24 13:43	1

Lab Sample ID: LCSSRM 480-702951/2-A

Matrix: Solid

Analysis Batch: 703387

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	255	229.4		mg/Kg		90.0	63.5 - 118.4

Lab Sample ID: LCSSRM 480-702951/2-A

Matrix: Solid

Analysis Batch: 703541

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Silver	51.0	45.08		mg/Kg		88.4	64.7 - 120.8

Lab Sample ID: LCSSRM 480-702951/2-A

Matrix: Solid

Analysis Batch: 703644

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec Limits
Lead	155	147.8		mg/Kg		95.4	67.7 - 119.4

Lab Sample ID: 480-217540-7 MS

Matrix: Solid

Analysis Batch: 703233

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	9.2		291	281.6		mg/Kg	✱	93	75 - 125
Barium	294		291	586.3		mg/Kg	✱	100	75 - 125
Cadmium	3.3		146	140.8		mg/Kg	✱	94	75 - 125
Selenium	0.83	J	291	257.0		mg/Kg	✱	88	75 - 125

Lab Sample ID: 480-217540-7 MS

Matrix: Solid

Analysis Batch: 703387

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	19.8	B	146	165.9		mg/Kg	✱	100	75 - 125

Lab Sample ID: 480-217540-7 MS

Matrix: Solid

Analysis Batch: 703541

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.77	J	14.6	15.52		mg/Kg	✱	101	75 - 125

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QC Sample Results

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

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

Lab Sample ID: 480-217540-7 MS

Matrix: Solid

Analysis Batch: 703644

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	348	F1 F2	146	421.8	F1	mg/Kg	✱	50	75 - 125

Lab Sample ID: 480-217540-7 MSD

Matrix: Solid

Analysis Batch: 703233

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	9.2		273	262.7		mg/Kg	✱	93	75 - 125	7	20
Barium	294		273	553.5		mg/Kg	✱	95	75 - 125	6	20
Cadmium	3.3		137	132.4		mg/Kg	✱	94	75 - 125	6	20
Selenium	0.83	J	273	236.2		mg/Kg	✱	86	75 - 125	8	20

Lab Sample ID: 480-217540-7 MSD

Matrix: Solid

Analysis Batch: 703387

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	19.8	B	137	174.4		mg/Kg	✱	113	75 - 125	5	20

Lab Sample ID: 480-217540-7 MSD

Matrix: Solid

Analysis Batch: 703541

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.77	J	13.7	14.50		mg/Kg	✱	100	75 - 125	7	20

Lab Sample ID: 480-217540-7 MSD

Matrix: Solid

Analysis Batch: 703644

Client Sample ID: TP-10 1-2 FT

Prep Type: Total/NA

Prep Batch: 702951

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	348	F1 F2	137	724.6	F1 F2	mg/Kg	✱	275	75 - 125	53	20

QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

GC/MS VOA

Prep Batch: 702853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	5035A_L	
MB 480-702853/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-702853/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-217540-6 MS	TP-9 0-2 FT	Total/NA	Solid	5035A_L	
480-217540-6 MSD	TP-9 0-2 FT	Total/NA	Solid	5035A_L	

Analysis Batch: 702854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	8260C	702853
MB 480-702853/2-A	Method Blank	Total/NA	Solid	8260C	702853
LCS 480-702853/1-A	Lab Control Sample	Total/NA	Solid	8260C	702853
480-217540-6 MS	TP-9 0-2 FT	Total/NA	Solid	8260C	702853
480-217540-6 MSD	TP-9 0-2 FT	Total/NA	Solid	8260C	702853

GC/MS Semi VOA

Prep Batch: 702847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	3550C	
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	3550C	
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	3550C	
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	3550C	
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	3550C	
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	3550C	
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	3550C	
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	3550C	
MB 480-702847/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-702847/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 702890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	8270D	702847
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	8270D	702847
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	8270D	702847
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	8270D	702847
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	8270D	702847
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	8270D	702847
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	8270D	702847
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	8270D	702847
MB 480-702847/1-A	Method Blank	Total/NA	Solid	8270D	702847
LCS 480-702847/2-A	Lab Control Sample	Total/NA	Solid	8270D	702847

Metals

Prep Batch: 702899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	7471B	
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	7471B	
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	7471B	
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	7471B	
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	7471B	
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	7471B	

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QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Metals (Continued)

Prep Batch: 702899 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	7471B	
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	7471B	

Prep Batch: 702951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	3050B	
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	3050B	
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	3050B	
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	3050B	
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	3050B	
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	3050B	
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	3050B	
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	3050B	
MB 480-702951/1-A	Method Blank	Total/NA	Solid	3050B	
LCSSRM 480-702951/2-A	Lab Control Sample	Total/NA	Solid	3050B	
480-217540-7 MS	TP-10 1-2 FT	Total/NA	Solid	3050B	
480-217540-7 MSD	TP-10 1-2 FT	Total/NA	Solid	3050B	

Analysis Batch: 703060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	7471B	702899
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	7471B	702899
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	7471B	702899
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	7471B	702899
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	7471B	702899
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	7471B	702899
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	7471B	702899
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	7471B	702899

Analysis Batch: 703233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	6010C	702951
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	6010C	702951
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	6010C	702951
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	6010C	702951
480-217540-7 MS	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-7 MSD	TP-10 1-2 FT	Total/NA	Solid	6010C	702951

Analysis Batch: 703387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	6010C	702951
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	6010C	702951
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	6010C	702951

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QC Association Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Metals (Continued)

Analysis Batch: 703387 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	6010C	702951
MB 480-702951/1-A	Method Blank	Total/NA	Solid	6010C	702951
LCSSRM 480-702951/2-A	Lab Control Sample	Total/NA	Solid	6010C	702951
480-217540-7 MS	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-7 MSD	TP-10 1-2 FT	Total/NA	Solid	6010C	702951

Analysis Batch: 703541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	6010C	702951
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	6010C	702951
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	6010C	702951
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	6010C	702951
MB 480-702951/1-A	Method Blank	Total/NA	Solid	6010C	702951
LCSSRM 480-702951/2-A	Lab Control Sample	Total/NA	Solid	6010C	702951
480-217540-7 MS	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-7 MSD	TP-10 1-2 FT	Total/NA	Solid	6010C	702951

Analysis Batch: 703644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	6010C	702951
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	6010C	702951
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	6010C	702951
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	6010C	702951
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	6010C	702951
MB 480-702951/1-A	Method Blank	Total/NA	Solid	6010C	702951
LCSSRM 480-702951/2-A	Lab Control Sample	Total/NA	Solid	6010C	702951
480-217540-7 MS	TP-10 1-2 FT	Total/NA	Solid	6010C	702951
480-217540-7 MSD	TP-10 1-2 FT	Total/NA	Solid	6010C	702951

General Chemistry

Analysis Batch: 702837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-217540-4	TP-4 1-3 FT	Total/NA	Solid	Moisture	
480-217540-5	TP-7 0-2 FT	Total/NA	Solid	Moisture	
480-217540-6	TP-9 0-2 FT	Total/NA	Solid	Moisture	
480-217540-7	TP-10 1-2 FT	Total/NA	Solid	Moisture	
480-217540-8	TP-11 0-2 FT	Total/NA	Solid	Moisture	
480-217540-9	TP-12 0-1 FT	Total/NA	Solid	Moisture	
480-217540-10	TP-13 0-0.5 FT	Total/NA	Solid	Moisture	
480-217540-11	TP-14 0-1 FT	Total/NA	Solid	Moisture	
480-217540-11 DU	TP-14 0-1 FT	Total/NA	Solid	Moisture	

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Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-4 1-3 FT

Date Collected: 03/04/24 10:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-4 1-3 FT

Date Collected: 03/04/24 10:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-4

Matrix: Solid

Percent Solids: 41.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		1	702890	JMM	EET BUF	03/07/24 21:34
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:11
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 00:25
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 16:50
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:10
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:02

Client Sample ID: TP-7 0-2 FT

Date Collected: 03/04/24 11:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-7 0-2 FT

Date Collected: 03/04/24 11:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-5

Matrix: Solid

Percent Solids: 62.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		1	702890	JMM	EET BUF	03/07/24 21:58
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:14
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 00:28
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 16:54
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:13
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:03

Eurofins Buffalo

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-9 0-2 FT

Date Collected: 03/04/24 12:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-9 0-2 FT

Date Collected: 03/04/24 12:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-6

Matrix: Solid

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035A_L			702853	CDC	EET BUF	03/06/24 18:03
Total/NA	Analysis	8260C		1	702854	LCH	EET BUF	03/07/24 02:46
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		10	702890	JMM	EET BUF	03/07/24 22:23
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:18
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 00:32
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 16:57
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:17
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:04

Client Sample ID: TP-10 1-2 FT

Date Collected: 03/04/24 13:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-10 1-2 FT

Date Collected: 03/04/24 13:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-7

Matrix: Solid

Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		10	702890	JMM	EET BUF	03/07/24 22:47
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:21
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 00:35
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 17:00
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:20

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Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-10 1-2 FT

Date Collected: 03/04/24 13:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-7

Matrix: Solid

Percent Solids: 72.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		125	703060	NVK	EET BUF	03/08/24 10:41

Client Sample ID: TP-11 0-2 FT

Date Collected: 03/04/24 14:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-11 0-2 FT

Date Collected: 03/04/24 14:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-8

Matrix: Solid

Percent Solids: 76.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		5	702890	JMM	EET BUF	03/07/24 23:11
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:49
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 01:02
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 17:27
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:47
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:31

Client Sample ID: TP-12 0-1 FT

Date Collected: 03/04/24 15:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-12 0-1 FT

Date Collected: 03/04/24 15:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-9

Matrix: Solid

Percent Solids: 64.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		1	702890	JMM	EET BUF	03/07/24 23:35
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:53
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 01:05

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Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-12 0-1 FT

Date Collected: 03/04/24 15:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-9

Matrix: Solid

Percent Solids: 64.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 17:31
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:51
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:32

Client Sample ID: TP-13 0-0.5 FT

Date Collected: 03/04/24 15:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-13 0-0.5 FT

Date Collected: 03/04/24 15:30

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-10

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			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		10	702890	JMM	EET BUF	03/07/24 23:59
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/11/24 23:57
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 01:09
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 17:34
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:54
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:33

Client Sample ID: TP-14 0-1 FT

Date Collected: 03/04/24 16:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	Moisture		1	702837	DSC	EET BUF	03/06/24 16:06

Client Sample ID: TP-14 0-1 FT

Date Collected: 03/04/24 16:00

Date Received: 03/06/24 11:00

Lab Sample ID: 480-217540-11

Matrix: Solid

Percent Solids: 51.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3550C			702847	SJM	EET BUF	03/06/24 16:32
Total/NA	Analysis	8270D		10	702890	JMM	EET BUF	03/08/24 00:23

Eurofins Buffalo

Lab Chronicle

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Client Sample ID: TP-14 0-1 FT

Lab Sample ID: 480-217540-11

Date Collected: 03/04/24 16:00

Matrix: Solid

Date Received: 03/06/24 11:00

Percent Solids: 51.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703387	BMB	EET BUF	03/12/24 00:00
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703233	BMB	EET BUF	03/09/24 01:12
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703541	BMB	EET BUF	03/12/24 17:38
Total/NA	Prep	3050B			702951	EMO	EET BUF	03/07/24 15:33
Total/NA	Analysis	6010C		1	703644	BMB	EET BUF	03/13/24 14:58
Total/NA	Prep	7471B			702899	NVK	EET BUF	03/07/24 11:41
Total/NA	Analysis	7471B		1	703060	NVK	EET BUF	03/08/24 10:38

Laboratory References:

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

Accreditation/Certification Summary

Client: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

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	03-31-24
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: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET BUF
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
5035A_L	Closed System Purge and Trap	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: Roux Environmental Engineering and Geology DPC
Project/Site: Rome, NY BCP site

Job ID: 480-217540-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-217540-4	TP-4 1-3 FT	Solid	03/04/24 10:30	03/06/24 11:00
480-217540-5	TP-7 0-2 FT	Solid	03/04/24 11:30	03/06/24 11:00
480-217540-6	TP-9 0-2 FT	Solid	03/04/24 12:30	03/06/24 11:00
480-217540-7	TP-10 1-2 FT	Solid	03/04/24 13:00	03/06/24 11:00
480-217540-8	TP-11 0-2 FT	Solid	03/04/24 14:00	03/06/24 11:00
480-217540-9	TP-12 0-1 FT	Solid	03/04/24 15:00	03/06/24 11:00
480-217540-10	TP-13 0-0.5 FT	Solid	03/04/24 15:30	03/06/24 11:00
480-217540-11	TP-14 0-1 FT	Solid	03/04/24 16:00	03/06/24 11:00

Chain of Custody Record



Environment Testing

Client Information		Lab PM: Fischer, Brian J		Carrier Tracking No(s):		COC No: 480-193159-40395.1	
Client Contact: Nick Suraci		E-Mail: Brian.Fischer@et.eurofins.com		State of Origin:		Page: Page 1 of 2	
Company: Roux Environmental Engineering and Geology DPC		PWSID:		Analysis Requested		Job #:	
Address: 2558 Hamburg Turnpike Suite 300		Due Date Requested: 3/14/24		TAT Requested (days):		Preservation Codes:	
City: Lackawanna		Compliance Project: Δ Yes Δ No		Purchase Order Requested: 4399.0003802		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Phone: 716-713-3937		Project #: 48027387		SSOW#: 48027387		Other:	
Email: nsuraci@rouxinc.com		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Project Name: Rome, NY BCP site		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Sample Identification	TP-1 0-2 Ft	3/14/24	9:00	9	Solid	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)
	TP-2 0-2 Ft		9:30		Solid		
	TP-3 1-3 Ft		10:00		Solid		
	TP-4 1-3 Ft		10:30		Solid		
	TP-7 0-2 Ft		11:30		Solid		
	TP-9 0-2 Ft		12:30		Solid		
	TP-10 1-2 Ft		13:00		Solid		
	TP-11 0-2 Ft		14:00		Solid		
	TP-12 0-1 Ft		15:00		Solid		
	TP-13 0-0.5 Ft		15:30		Solid		
	TP-14 0-1 Ft		16:00		Solid		
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)							
Empty Kit Relinquished by: Date: 3/14/24 1630							
Relinquished by: Date: 3/14/24 1630							
Relinquished by: Date: 3/14/24 1630							
Relinquished by: Date: 3/14/24 1630							
Custody Seals Intact: Δ Yes Δ No							
Custody Seal No.: 202 # 13012							
Cooler Temperature(s) °C and Other Remarks:							

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Roux Environmental Engineering and Geology DPC

Job Number: 480-217540-2

Login Number: 217540

List Source: Eurofins Buffalo

List Number: 1

Creator: Wallace, Cameron

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.	True	ROUX
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	